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GenCore version 5.1.3
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OM protein - nucleic search, using frame_plus_p2n model

Run on: January 10, 2003, 12:26:17 ; Search time 77 Seconds
(without alignments)
3115.017 Million cell updates/sec

Title: US-09-899-440-18

Perfect score: 2850

Sequence: 1 MLRSKRALPPPLMLLLG.....LPARSFPTIRAKVAACI 545

Scoring table:

BLOSUM62	Xgapop 10.0	Xgapext 0.5
	Xgapop 10.0	Xgapext 0.5
	Egapop 6.0	Egapext 7.0
	Delop 6.0	Delext 7.0

Searched: 389086 seqs, 220051671 residues

Total number of hits satisfying chosen parameters: 201138

Minimum DB seq length: 0

Maximum DB seq length: 40

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:
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-DB-published.Applications.NA -QFMT-fastap -SUFFIX-rnpb -MIMATCH=0.1
-LOOP=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX-blosum62
-TRANS-human40.csl -LIST=45 -DOCALLIGN=200 -THR SCORE=pcr -THR MAX=100
-THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pic -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=40 -USER=US0989440 -EGCN 1 1.35 -runat_08012003_124404_23198 -NCPU=6
-ICPU=3 -NO_XLPEXT -NO_MMAR -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications.NA:*
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11: /cg2.6/p2nmodel/2/pubpna/US10_NEW_PUB.seq:*
12: /cg2.6/p2nmodel/2/pubpna/US10_PUBCOMB.seq:*
13: /cg2.6/p2nmodel/2/pubpna/US60_NEW_PUB.seq:*
14: /cg2.6/p2nmodel/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	53	1.9	24	US-09-988-113-2	Sequence 2, Appli
2	53	1.9	24	US-09-988-113-7	Sequence 7, Appli
3	53	1.9	24	US-09-988-113-29	Sequence 29, Appli
4	53	1.9	24	US-09-759-207-7	Sequence 7, Appli

5	53	1.9	24	US-09-776-874A-2	Sequence 2, Appli
6	53	1.9	24	US-09-776-874A-7	Sequence 7, Appli
7	53	1.9	24	US-09-776-874A-29	Sequence 29, Appli
8	53	1.9	24	US-09-944-602-7	Sequence 7, Appli
9	53	1.9	24	US-09-322-977-7	Sequence 7, Appli
10	42	1.5	36	US-09-504-231A-1888	Sequence 1888, Ap
11	42	1.5	36	US-09-274-553D-1888	Sequence 1888, Ap
12	41	1.4	40	US-09-915-060-21	Sequence 21, Appli
13	40	1.4	33	US-09-864-321-2	Sequence 12, Appli
14	40	1.4	36	US-09-337-946A-12	Sequence 12, Ap
15	40	1.4	36	US-09-504-231A-2742	Sequence 2742, Ap
16	40	1.4	36	US-09-274-553D-2742	Sequence 1253, Ap
17	40	1.4	38	US-09-864-785-1253	Sequence 843, App
18	39	1.4	31	US-09-801-274-875	Sequence 875, App
19	39	1.4	31	US-09-801-274-875	Sequence 14, Appli
20	38	1.3	22	US-09-930-218-14	Sequence 25, Appli
21	38	1.3	23	US-09-988-113-6	Sequence 6, Appli
22	38	1.3	23	US-09-759-207-6	Sequence 25, Appli
23	38	1.3	23	US-09-776-874A-6	Sequence 6, Appli
24	38	1.3	23	US-09-776-874A-25	Sequence 25, Appli
25	38	1.3	23	US-09-944-602-6	Sequence 6, Appli
26	38	1.3	23	US-09-322-977-6	Sequence 6, Appli
27	38	1.3	27	US-09-956-342-4	Sequence 4, Appli
28	38	1.3	38	US-09-864-785-1236	Sequence 1236, Ap
29	38	1.3	38	US-09-864-785-1335	Sequence 1335, Ap
30	38	1.3	38	US-09-866-108-11652	Sequence 11652, A
31	37	1.3	25	US-09-866-108-11653	Sequence 11653, A
32	37	1.3	25	US-09-866-108-11653	Sequence 26, Appli
33	37	1.3	35	US-09-866-248A-26	Sequence 1738, Ap
34	37	1.3	36	US-09-504-231A-1738	Sequence 1879, Ap
35	37	1.3	36	US-09-504-231A-1879	Sequence 1738, Ap
36	37	1.3	36	US-09-274-553D-1879	Sequence 1879, Ap
37	37	1.3	36	US-09-274-553D-1879	Sequence 3188, Ap
38	37	1.3	37	US-09-504-231A-3188	Sequence 10, Appli
39	37	1.3	37	US-09-924-439-10	Sequence 945, App
40	37	1.3	38	US-09-864-785-945	Sequence 1256, Ap
41	37	1.3	38	US-09-864-785-1256	Sequence 1257, Ap
42	37	1.3	38	US-09-864-785-1257	Sequence 157, Ap
43	37	1.3	38	US-09-752-110A-17	Sequence 17, Appli
44	37	1.3	39	US-09-868-075A-17	Sequence 12, Appli
45	37	1.3	40	US-09-752-110A-12	

ALIGNMENTS

RESULT 1
US-09-988-113-2/c
Sequence 2, Application US/09988113
Patent No. US20020168749A1
GENERAL INFORMATION:
APPLICANT: Pecker, Iris
APPLICANT: Vlodavsky, Israel
APPLICANT: Feinstein, Elena
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY
FILE REFERENCE: 01/22781
CURRENT APPLICATION NUMBER: US/09/988,113
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: US 09/776,874
PRIOR FILING DATE: 2001-02-06
PRIOR APPLICATION NUMBER: US09/258,892
PRIOR FILING DATE: 1999-03-01
PRIOR APPLICATION NUMBER: PCT/US98/17954
PRIOR FILING DATE: 1998-08-31
PRIOR APPLICATION NUMBER: US 09/109,386
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: US 08/922,170
PRIOR FILING DATE: 1997-09-02
NUMBER OF SEQ ID NOS: 47
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 24
TYPE: DNA

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; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-988-113-2
Alignment Scores:
Pred. No.: 33
Score: 53.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 1.86%
Db: 9
Length: 24
Matches: 8
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0
US-09-899-440-18 (1-545) x US-09-988-113-2 (1-24)
QY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTCAGTTACATGCATCCTAC 1
RESULT 2
US-09-988-113-7/c
; Sequence 7, Application US/09988113
; Patent No. US20020168749A1
; GENERAL INFORMATION:
; APPLICANT: Pecker, Iris
; APPLICANT: Vlodavsky, Israel
; APPLICANT: Feinstein, Elena
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY
; FILE REFERENCE: 01/22781
; CURRENT FILING DATE: 2001-11-19
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: US 09/776,874
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: US09/258,892
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: PCT/US98/17954
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: US 09/109,386
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: US 08/922,170
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-988-113-7
Alignment Scores:
Pred. No.: 33
Score: 53.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 1.86%
Db: 9
Length: 24
Matches: 8
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0
US-09-899-440-18 (1-545) x US-09-988-113-7 (1-24)
QY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTCAGTTACATGCATCCTAC 1
RESULT 3
US-09-988-113-29/c
; Sequence 29, Application US/09988113
; Patent No. US20020168749A1
; GENERAL INFORMATION:
; APPLICANT: Pecker, Iris
; APPLICANT: Vlodavsky, Israel

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; APPLICANT: Feinstein, Elena
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE HAVING HEPARANASE ACTIVITY
; FILE REFERENCE: 01/22781
; CURRENT FILING DATE: 2001-11-19
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: US09/258,892
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: PCT/US98/17954
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: US 09/109,386
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: US 08/922,170
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-988-113-29
Alignment Scores:
Pred. No.: 33
Score: 53.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 1.86%
Db: 9
Length: 24
Matches: 8
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0
US-09-899-440-18 (1-545) x US-09-988-113-29 (1-24)
QY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTCAGTTACATGCATCCTAC 1
RESULT 4
US-09-759-207-7/c
; Sequence 7, Application US/09759207
; Patent No. US20020004585A1
; GENERAL INFORMATION:
; APPLICANT: Iris Pecker et al.
; TITLE OF INVENTION: HEPARANASE SPECIFIC MOLECULAR PROBES AND THEIR USE IN RESEARCH AND MEDICAL APPLICATIONS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: G. E. Ehrlich (1995) Ltd.
; STREET: 2001 Jefferson Davis Highway, Suite 207
; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
; COMPUTER: Twinhead, Slimnote-890TX
; OPERATING SYSTEM: MS DOS version 6.2,
; Windows version 3.11
; SOFTWARE: Word for Windows version 2.0 converted to
; an ASCII file
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,207
; FILING DATE: 16-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/922,180
; FILING DATE: September 2, 1997
; APPLICATION NUMBER: 09/071,739

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us-09-899-440-18.rnpb

QY	29
Db	2
RESULT 6	
US-09-777	
; Sequen	
; Patent	
; GENERA	
; APPLI	
; APPLI	
; APPLI	
; TITLE	
; TITLE	
; FILE	
; CURKE	
; CURRE	
; PRIOR	
; PRIOR	
; PRIOR	

;	PRIOR
;	PRIOR
;	NUMBE
;	SOFTW
;	SEO II
;	LENG
;	TYPE

FEAT
; ORGA
|

OTHE
US-09-77

Allanmer

```

Score: 53.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 1.86%
Db: 10
US-09-899-440-18 (1-545) x US-09-776-
QY 293 Aspergillusniger 30

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Db

RESULT
US-09-77
Sequen
Patent
GENERAL
APPL
APPL
TITL
TITL
FILE
CURR
CURR
PRIO
PRIO
patn

PRIO	PRIO	NUMB	SOFT	SEQ I	LEN	TVD
1	1	1	1	1	1	1

ORG
FEA

HAVING HEPARANASE ACTIVITY

SECRET

1000

DIFFIED CELLS

OTHER INFORMATION: synthetic oligonucleotide
US-09-776-874A-29

Alignment Scores:

Pred. No.:	33	Length:	24
Score:	53.00	Matches:	8
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	1.86%	Indels:	0
DB:	10	Gaps:	0

US-09-899-440-18 (1-545) x US-09-776-874A-29 (1-24)

QY 293 AppSerValThTrpHisHisTyr 300
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DB 24 GATTCACTTACATGCATCCTAC 1

RESULT 8
US-09-944-602-7/C

Sequence 7, Application US/09944602
Patent No. US20020102619A1
GENERAL INFORMATION:
APPLICANT: Pecker, Itls
APPLICANT: Violdavsky, Israel
APPLICANT: Friedmann, Yael
TITLE OF INVENTION: HEPARANASE SPECIFIC MOLECULAR PROBES AND THEIR USE IN RESEARCH AN
FILE REFERENCE: 01/223380
CURRENT APPLICATION NUMBER: US/09/944,602
PRIOR FILING DATE: 2001-09-04
PRIOR APPLICATION NUMBER: US 09/759,207
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 09/322,977
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: US 09/071,739
PRIOR FILING DATE: 1998-05-01
PRIOR APPLICATION NUMBER: US 08/922,180
PRIOR FILING DATE: 1997-09-02
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 24
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
US-09-944-602-7

Alignment Scores:

Pred. No.:	33	Length:	24
Score:	53.00	Matches:	8
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DB:	10	Gaps:	0

US-09-899-440-18 (1-545) x US-09-944-602-7 (1-24)

QY 293 AppSerValThTrpHisHisTyr 300
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DB 24 GATTCACTTACATGCATCCTAC 1

RESULT 9
US-09-322-977-7/C

Sequence 7, Application US/09322977
Patent No. US20020114801A1
GENERAL INFORMATION:
APPLICANT: Itls Pecker et al.
TITLE OF INVENTION: HEPARANASE SPECIFIC MOLECULAR PROBES
TITLE OF INVENTION: AND THEIR USE IN RESEARCH AND MEDICAL
NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
STREET: 2001 Jefferson Davis Highway, Suite 207
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead* Slimnote-890TX
OPERATING SYSTEM: MS DOS version 6.2.2,
SOFTWARE: Word for Windows version 3.11
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,977
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/922,180
FILING DATE: September 2, 1997
APPLICATION NUMBER: 09/071,739
FILING DATE: May 1, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Friedmann, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 910/21
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-5625553
TELEFAX: 972-3-5625554
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 24
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-322-977-7

Alignment Scores:

Pred. No.:	33	Length:	24
Score:	53.00	Matches:	8
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	1.86%	Indels:	0
DB:	10	Gaps:	0

US-09-899-440-18 (1-545) x US-09-322-977-7 (1-24)

QY 293 AppSerValThTrpHisHisTyr 300
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DB 24 GATTCACTTACATGCATCCTAC 1

RESULT 10
US-09-504-231A-1888

Sequence 1888, Application US/09504231A
Patent No. US20020013458A1
GENERAL INFORMATION:
APPLICANT: Blatt, Lawrence
APPLICANT: McSwigen, James
APPLICANT: Roberts, Beth
APPLICANT: Pavco, Pamela
APPLICANT: Macejak, Dennis
TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS REL
FILE REFERENCE: FPI 247/282
CURRENT APPLICATION NUMBER: US/09/504,231A
PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 09/274,553
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 09/257,608
PRIOR FILING DATE: 1999-02-24
PRIOR APPLICATION NUMBER: 60/100,842
PRIOR FILING DATE: 1998-09-18

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; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3242
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1888
; LENGTH: 36
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid Molec
US-09-504-231A-1888

Alignment Scores:
Pred. No.: 1.21e+03 Length: 36
Score: 42.00 Matches: 7
Percent Similarity: 90.91% Conservative: 3
Best Local Similarity: 63.64% Mismatches: 1
Query Match: 1.47% Indels: 0
DB: 10 Gaps: 0

US-09-899-440-18 (1-545) x US-09-504-231A-1888 (1-36)

OY 479 LysTyrLeuLeuArgProLeuGlyProHisGly 489
DB 2 CGGUACUGAUGAGCGCCGUAGCCGAAACGA 34

RESULT 11
US-09-274-553D-1888
; Sequence 1888, Application US/09274553D
; Patent No. US2002008225A1
; GENERAL INFORMATION:
; APPLICANT: Blatt, Lawrence
; APPLICANT: McSwigen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Maciejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; TITLE OF INVENTION: HEPATITIS C VIRUS INFECTION
; FILE REFERENCE: TPI 247/282
; CURRENT APPLICATION NUMBER: US/09/274,553D
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3148
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1888
; LENGTH: 36
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Enzymatic Nucleic Acid Molec
US-09-274-553D-1888

Alignment Scores:
Pred. No.: 1.21e+03 Length: 36
Score: 42.00 Matches: 7
Percent Similarity: 90.91% Conservative: 3
Best Local Similarity: 63.64% Mismatches: 1
Query Match: 1.47% Indels: 0
DB: 10 Gaps: 0

US-09-899-440-18 (1-545) x US-09-274-553D-1888 (1-36)

OY 479 LysTyrLeuLeuArgProLeuGlyProHisGly 489
DB 2 CGGUACUGAUGAGCGCCGUAGCCGAAACGA 34

RESULT 12
US-09-915-060-21

Sequence 21, Application US/09915060
Patent No. US20020049181A1
GENERAL INFORMATION:
APPLICANT: Viaams Interuniversitair Instituut voor Biotechnol
TITLE OF INVENTION: No. US20020049181A1 Internal ribosome entry site, vector con
FILE REFERENCE: 2676-4976US
CURRENT APPLICATION NUMBER: US/09/915,060
CURRENT FILING DATE: 2001-07-25
PRIOR APPLICATION NUMBER: 99200216.2
PRIOR FILING DATE: 1999-01-26
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn version 3.1
SEQ ID NO 21
LENGTH: 40
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: E-tag probe
US-09-915-060-21

Alignment Scores:
Pred. No.: 1.88e+03 Length: 40
Score: 41.00 Matches: 7
Percent Similarity: 66.67% Conservative: 1
Best Local Similarity: 58.33% Mismatches: 4
Query Match: 1.44% Indels: 0
DB: 10 Gaps: 0

US-09-899-440-18 (1-545) x US-09-915-060-21 (1-40)

OY 344 GlytUtrSerSerAlaTyrGlyGlyAlaPro 355
DB 5 GGTTCACGCGATCCGATACGCTCCGCGCACCCT 40

RESULT 13
US-09-864-321-2/c
; Sequence 2, Application US/09864321
; Publication No. US20020194625A1
; GENERAL INFORMATION:
; APPLICANT: Zcharia, Eyal
; APPLICANT: Vlodavsky, Israel
; APPLICANT: Metzger, Shula
; APPLICANT: Pecker, Iris
; APPLICANT: Ilan, Neta
; APPLICANT: Chajek-Shaul, Tova
; APPLICANT: Goldsmidt, Orit
; TITLE OF INVENTION: TRANSGENIC ANIMALS EXPRESSING HEPARANASE AND ITS USES
; FILE REFERENCE: 00/21247
; CURRENT APPLICATION NUMBER: US/09/864,321
; CURRENT FILING DATE: 2001-09-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-864-321-2

Alignment Scores:
Pred. No.: 1.07e+03 Length: 24
Score: 40.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.40% Indels: 0
DB: 9 Gaps: 0

US-09-899-440-18 (1-545) x US-09-864-321-2 (1-24)

OY 118 SerTyrTrpGlnSerGlnVal 124
DB 118 SerTyrTrpGlnSerGlnVal 124
```

DB 22 AGTTACTGCGAATCTCAAGTC 2

RESULT 14

US-09-337-946A-12/C

Sequence 12, Application US/09337946A
Patent No. US20020164582A1

GENERAL INFORMATION:

APPLICANT: United States Army Medical Research Institute of
Infectious Diseases
APPLICANT: Hart, Mary Katherine
APPLICANT: Wilson, Julie A.
APPLICANT: Pushko, Peter
APPLICANT: Smith, Jonathan F.
TITLE OF INVENTION: Ebola Virus Proteins Expressed from Venezuelan Equine Encephalitis
FILE REFERENCE: Army 144
CURRENT APPLICATION NUMBER: US/09/337,946A
PRIOR APPLICATION NUMBER: 1999-06-22
PRIOR FILING DATE: 1998-06-29
NUMBER OF SEQ ID NOS: 25
SOFTWARE: IBM compatible, Word 97, Windows 95
SEQ ID NO 12
LENGTH: 33
TYPE: DNA
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: /note= "forward primer for VP35"
US-09-337-946A-12

Alignment Scores:

Pred. No.:	1.8e+03	Length:	33
Score:	40.00	Matches:	7
Percent Similarity:	90.00%	Conservative:	2
Best Local Similarity:	70.00%	Mismatches:	1
Query Match:	1.40%	Indels:	0
DB:	9	Gaps:	0

US-09-899-440-18 (1-545) x US-09-337-946A-12 (1-33)

OY 52 HlsLqUvAlserProserPheLuserSerVal 61

DB 32 CATCTTGTAGACCACTTTCTCATCGATC 3

RESULT 15

US-09-504-231A-2742/C

Sequence 2742, Application US/09504231A
Patent No. US20020013458A1

GENERAL INFORMATION:

APPLICANT: Blatt, Lawrence
APPLICANT: McSwilgen, James
APPLICANT: Roberts, Beth
APPLICANT: Pavco, Pamela
APPLICANT: Macejak, Dennis
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
FILE REFERENCE: FPL 247/282
CURRENT APPLICATION NUMBER: US/09/504,231A
PRIOR APPLICATION NUMBER: 09/274,553
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 09/257,608
PRIOR FILING DATE: 1999-02-24
PRIOR APPLICATION NUMBER: 60/100,842
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/083,217
PRIOR FILING DATE: 1998-04-27
NUMBER OF SEQ ID NOS: 3242
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2742
LENGTH: 36
TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE:

US-09-504-231A-2742 Description of Artificial Sequence: Enzymatic Nucleic Acid Mo

Alignment Scores:

Pred. No.:	2.07e+03	Length:	36
Score:	40.00	Matches:	7
Percent Similarity:	83.33%	Conservative:	3
Best Local Similarity:	58.33%	Mismatches:	2
Query Match:	1.40%	Indels:	0
DB:	10	Gaps:	0

US-09-899-440-18 (1-545) x US-09-504-231A-2742 (1-36)

OY 483 ArgProLeuGlyProHisGlyLeuLeuSerLysSer 494

DB 36 CGCCCTTTGCGGCTTAACGGCTCATCAGCCGATCA 1

Search completed: January 10, 2003, 14:21:09
Job time : 77 secs

GenCore version 5.1.3
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OM protein - nucleic search, using frame_plus_p2n model

Run on: January 10, 2003, 12:24:01 ; Search time 62 seconds
(without alignments)
2695.788 Million cell updates/sec

Title: US-09-899-440-18
Perfect score: 2850
Sequence: 1 MLRSKRALPPPLMLLLG.....LPASYSFVIRNAKAACT 545

Scoring table:
BLOSUM62
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 558892

Minimum DB seq length: 0
Maximum DB seq length: 40

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-DB=Issued_Patents.NA -DEMT=fastap -SUFFIX=rnt -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blonsum62 -TRANS=human40.cdd
-LIST=45 -DOCCALIGN=200 -THR.SCORE=ptc -THR.MAX=100 -THR.MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NOR=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=40
-USER=US09899440/ecgn.1.1.27@runat.08012003.124403.23180 -NCPU=6 -ICPU=3
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-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued_Patents.NA:*
1: /cg2.6/ptodata/2/ina/5A.COMB.seq:*
2: /cg2.6/ptodata/2/ina/5B.COMB.seq:*
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4: /cg2.6/ptodata/2/ina/6B.COMB.seq:*
5: /cg2.6/ptodata/2/ina/PTUS.COMB.seq:*
6: /cg2.6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	53	1.9	24	2	US-08-922-170B-2 Sequence 2, Appl1
C 2	53	1.9	24	2	US-08-922-170B-7 Sequence 7, Appl1
C 3	53	1.9	24	4	US-09-071-739B-7 Sequence 7, Appl1
C 4	47	1.6	36	4	US-08-863-639A-31 Sequence 31, Appl1
C 5	47	1.6	40	4	US-09-252-586-4 Sequence 4, Appl1
C 6	46	1.6	32	4	US-09-260-038B-18 Sequence 18, Appl1
C 7	46	1.6	32	4	US-09-635-923-16 Sequence 16, Appl1
C 8	43	1.5	35	4	US-09-252-586-10 Sequence 10, Appl1
C 9	43	1.5	40	1	US-07-743-245-1 Sequence 1, Appl1
C 10	41	1.4	39	3	US-08-448-619-2 Sequence 2, Appl1
C 11	41	1.4	39	3	US-08-448-619-3 Sequence 3, Appl1
C 12	40	1.4	21	4	US-09-113-168-2 Sequence 2, Appl1

C 13	40	1.4	36	4	US-08-686-968C-128 Sequence 128, App
C 14	40	1.4	37	5	PCT-US94-10617-5 Sequence 5, Appl1
C 15	39	1.4	24	3	US-08-393-157-1 Sequence 1, Appl1
C 16	39	1.4	36	2	US-08-532-795-5 Sequence 5, Appl1
C 17	38	1.3	23	2	US-08-922-170B-6 Sequence 6, Appl1
C 18	38	1.3	23	4	US-09-071-739B-6 Sequence 6, Appl1
C 19	38	1.3	27	3	US-08-991-247-4 Sequence 4, Appl1
C 20	38	1.3	28	4	US-09-260-038B-16 Sequence 16, Appl1
C 21	38	1.3	29	4	US-09-635-923-16 Sequence 16, Appl1
C 22	38	1.3	28	4	US-09-260-038B-22 Sequence 22, Appl1
C 23	38	1.3	29	4	US-09-635-923-22 Sequence 22, Appl1
C 24	38	1.3	35	4	US-09-260-038B-6 Sequence 6, Appl1
C 25	38	1.3	35	4	US-09-635-923-6 Sequence 6, Appl1
C 26	38	1.3	38	1	US-07-967-693-30 Sequence 30, Appl1
C 27	38	1.3	38	1	US-08-195-072-28 Sequence 28, Appl1
C 28	38	1.3	38	1	US-08-195-735-28 Sequence 28, Appl1
C 29	38	1.3	38	1	US-08-195-747-28 Sequence 28, Appl1
C 30	38	1.3	38	1	US-08-446-884-28 Sequence 28, Appl1
C 31	38	1.3	38	1	US-08-195-073-28 Sequence 28, Appl1
C 32	38	1.3	38	1	US-08-198-175-28 Sequence 28, Appl1
C 33	38	1.3	38	2	US-08-443-153-28 Sequence 28, Appl1
C 34	38	1.3	38	2	US-08-442-807-28 Sequence 28, Appl1
C 35	38	1.3	39	5	PCT-US92-07916-8 Sequence 8, Appl1
C 36	38	1.3	39	5	PCT-US94-14106-21 Sequence 21, Appl1
C 37	37	1.3	21	4	US-09-252-586-12 Sequence 12, Appl1
C 38	37	1.3	21	4	US-09-252-586-13 Sequence 13, Appl1
C 39	37	1.3	30	4	US-09-674-460-2 Sequence 2, Appl1
C 40	37	1.3	35	4	US-09-255-368-26 Sequence 26, Appl1
C 41	37	1.3	35	4	US-09-260-038B-8 Sequence 8, Appl1
C 42	37	1.3	35	4	US-09-635-923-8 Sequence 8, Appl1
C 43	37	1.3	36	1	US-08-525-058A-20 Sequence 20, Appl1
C 44	37	1.3	36	4	US-09-042-353-96 Sequence 96, Appl1
C 45	37	1.3	36	4	US-08-758-417A-360 Sequence 360, App

ALIGNMENTS

RESULT 1
US-08-922-170B-2/c
Sequence 2, Application US/08922170B
Patent No. 5968822
GENERAL INFORMATION:
APPLICANT: Iris Pecker, Israel Vlodaysky and Elena
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE
TITLE OF INVENTION: HAVING HEPARANASE ACTIVITY AND EXPRESSION OF
TITLE OF INVENTION: SAME IN TRANSDUCED CELLS
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedman c/o Robert Sheinbein
STREET: 2940 Birchtree lane
CITY: Silver Spring
STATE: Maryland
COUNTRY: United States of America
ZIP: 20906
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead* Slimnote-8901X
OPERATING SYSTEM: MS DOS version 6.2,
OPERATING SYSTEM: Windows version 3.11
SOFTWARE: word for Windows version 2.0 converted to
SOFTWARE: an ASCII file
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/922.170B
FILING DATE: 2 SEP 1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Friedman, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 910/1

TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-562553
TELEFAX: 972-3-562554
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 24
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-922-170B-2

Alignment Scores:
Pred. No.: 22.6 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 2 Gaps: 0

US-09-899-440-18 (1-545) x US-08-922-170B-2 (1-24)

OY 293 AspSerValThrTrpHisHisTyr 300
Db 24 GATCAGTTACATGCATCCTACTAC 1

RESULT 2
US-08-922-170B-7/C
Sequence 7, Application US/08922170B
Patent No. 5968822
GENERAL INFORMATION:
APPLICANT: Iris Pecker, Israel Vlodavsky and Elena
APPLICANT: Feinstein
TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A POLYPEPTIDE
TITLE OF INVENTION: HAVING HEPARANASE ACTIVITY AND EXPRESSION OF
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedman c/o Robert Sheindeln
STREET: 2940 Birchtree Lane
CITY: Silver Spring
STATE: Maryland
COUNTRY: United States of America
ZIP: 20906
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead* Slimnote-890TX
OPERATING SYSTEM: MS DOS version 6.2,
SOFTWARE: Word for Windows version 3.11
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/922,170B
FILING DATE: 2 SEP 1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Friedman, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 910/1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-562553
TELEFAX: 972-3-562554
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 24
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-922-170B-7

Alignment Scores:
Pred. No.: 22.6 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 2 Gaps: 0

US-09-899-440-18 (1-545) x US-08-922-170B-7 (1-24)

OY 293 AspSerValThrTrpHisHisTyr 300
Db 24 GATCAGTTACATGCATCCTACTAC 1

RESULT 3
US-09-071-739B-7/C
Sequence 7, Application US/09071739B
Patent No. 6177545
GENERAL INFORMATION:
APPLICANT: Iris Pecker et al.
TITLE OF INVENTION: HEPARANASE SPECIFIC MOLECULAR PROBES
TITLE OF INVENTION: AND THEIR USE IN RESEARCH AND MEDICAL
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
STREET: 20001 Jefferson Davis Highway, Suite 207
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead* Slimnote-890TX
OPERATING SYSTEM: MS DOS version 6.2,
SOFTWARE: Word for Windows version 3.11
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,739B
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/922,180
FILING DATE: September 2, 1997
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Friedman, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 910/5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-562553
TELEFAX: 972-3-562554
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 24
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-071-739B-7

Alignment Scores:
Pred. No.: 22.6 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 4 Gaps: 0

US-09-899-440-18 (1-545) x US-09-071-739B-7 (1-24)

OY 293 AsperValThrPHisTyr 300
DB 24 GATTCAGTTACATGGCATCTACTAC 1

RESULT 4
US-08-863-639A-31/C
Sequence 31, Application US/08863639A
Patent No. 5981185
GENERAL INFORMATION:
APPLICANT: Matson, Robert S.
APPLICANT: Coassin, Peter J.
APPLICANT: Rampal, Jang B.
APPLICANT: Caskey, C. T.
TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
NUMBER OF SEQUENCES: 95
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheldon & Mak
STREET: 225 South Lake Avenue, 9th Floor
CITY: Pasadena
STATE: CA
COUNTRY: USA
ZIP: 91101
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Corel Wordperfect 8 version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/863, 639A
FILING DATE: May 28, 1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Joseph E. Muech
REGISTRATION NUMBER: 20,532
REFERENCE/DOCKET NUMBER: 11859-1
TELEPHONE: (626) 796-4000
TELEFAX: (626) 795-6321
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other nucleic acid
US-08-863-639A-31

Alignment Scores:
Pred. No.: 252 Length: 36
Score: 47.00 Matches: 9
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 90.00% Mismatches: 0
Query Match: 1.65% Indels: 0
Gaps: 0

US-09-899-440-18 (1-545) x US-08-863-639A-31 (1-36)

OY 10 ProProLeuLeuMetLeuLeuLeu 19
DB 34 CGCGCGCGCTGCTGCTGCTGCTGCTGCG 5

RESULT 5
US-09-252-586-4
Sequence 4, Application US/09252586
Patent No. 6387643
GENERAL INFORMATION:
APPLICANT: Heinrichson, Robert L.
APPLICANT: Falzdanks, Michael B.
APPLICANT: Mildner, Ana M.
TITLE OF INVENTION: Human Platelet Heparanase Polypeptides,
TITLE OF INVENTION: Polynucleotide Molecules That Encode Them, and Methods For
TITLE OF INVENTION: The Identification of Compounds That Alter Heparanase
TITLE OF INVENTION: Activity

NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pharmacia & Upjohn
STREET: 301 Henrietta
CITY: Kalamazoo
STATE: MI
COUNTRY: USA
ZIP: 49001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/252,586
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Kerber, Lori L.
REGISTRATION NUMBER: 41,113
REFERENCE/DOCKET NUMBER: 6131.N CN1
TELEPHONE: 616-833-0974
TELEFAX: 616-833-8897
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 40 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-09-252-586-4

Alignment Scores:
Pred. No.: 303 Length: 40
Score: 47.00 Matches: 9
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.65% Indels: 0
Gaps: 0

US-09-899-440-18 (1-545) x US-09-252-586-4 (1-40)

OY 160 LysLysPheLysAsnSerThyTyrSer 168
DB 14 AAAAGTTCAAGACAGACCTACTCA 40

RESULT 6
US-09-260-038B-18/C
Sequence 18, Application US/09260038B
Patent No. 6348344
GENERAL INFORMATION:
APPLICANT: Maty Ayal-Herskovitz et al.
TITLE OF INVENTION: GENETICALLY MODIFIED CELLS AND METHODS FOR
EXPRESSING RECOMBINANT HEPARANASE
AND METHODS OF PURIFYING SAME
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
STREET: 2001 Jefferson Davis Highway, Suite 207
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead+ Slimnote-890TX
OPERATING SYSTEM: MS DOS version 6.2,
Windows version 3.11
SOFTWARE: Word for Windows version 2.0 converted to
an ASCII file

appand edwards, etc.

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/260,038B
FILING DATE: 02-Mar-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/071,618
FILING DATE: May 1, 1998
APPLICATION NUMBER: 09/071,739
FILING DATE: May 1, 1998
APPLICATION NUMBER: 08/922,180
FILING DATE: September 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Friedman, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 910/16
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-5625553
TELEFAX: 972-3-5625554
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 32
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-260-038B-18

Alignment Scores:
Pred. No.: 272 Length: 32
Score: 46.00 Matches: 8
Percent Similarity: 88.89% Conservative: 0
Best Local Similarity: 88.89% Mismatches: 1
Query Match: 1.61% Indels: 0
Gaps: 0
DB: 4

US-09-899-440-18 (1-545) x US-09-260-038B-18 (1-32)
QY 114 PheGluGluArgSerTyrTrpGlnSer 122
DB 31 TTGTGAAGAGAGAGTACTGCGCATCG 5

RESULT 7
US-09-635-923-18/c
Sequence 18, Application US/09635923
Patent No. 6426209
GENERAL INFORMATION:
APPLICANT: Matly Ayal-Hershkovitz et al.
TITLE OF INVENTION: GENETICALLY MODIFIED CELLS AND METHODS FOR EXPRESSING RECOMBINANT HEPARANASE
AND METHODS OF PURIFYING SAME
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
STREET: 2001 Jefferson Davis Highway, Suite 207
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: PC
OPERATING SYSTEM: MS DOS version 6.2,
Windows version 3.11
SOFTWARE: Word for Windows version 2.0 converted to an ASCII file
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/635,923
FILING DATE: 10-Aug-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/487,716
FILING DATE: 19-Jan-2000
APPLICATION NUMBER: 09/071,618

FILING DATE: May 1, 1998
APPLICATION NUMBER: 09/071,739
FILING DATE: May 1, 1998
APPLICATION NUMBER: 08/922,180
FILING DATE: September 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Friedman, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 910/16
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-5625553
TELEFAX: 972-3-5625554
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 32
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-635-923-18

Alignment Scores:
Pred. No.: 272 Length: 32
Score: 46.00 Matches: 8
Percent Similarity: 88.89% Conservative: 0
Best Local Similarity: 88.89% Mismatches: 1
Query Match: 1.61% Indels: 0
Gaps: 0
DB: 4

US-09-899-440-18 (1-545) x US-09-635-923-18 (1-32)
QY 114 PheGluGluArgSerTyrTrpGlnSer 122
DB 31 TTGTGAAGAGAGAGTACTGCGCATCG 5

RESULT 8
US-09-252-586-10
Sequence 10, Application US/09252586
Patent No. 6387643
GENERAL INFORMATION:
APPLICANT: Heintzson, Robert L.
APPLICANT: Fairbanks, Michael B.
APPLICANT: Milner, Ana M.
TITLE OF INVENTION: Human Platelet Heparanase Polypeptides,
TITLE OF INVENTION: Polynucleotide Molecules that Encode Them, and Methods For
TITLE OF INVENTION: the Identification of Compounds that Alter Heparanase
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pharmacia & Upjohn
STREET: 301 Henrietta
CITY: Kalamazoo
STATE: MI
COUNTRY: USA
ZIP: 49001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/252,586
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Kerber, Lori L.
REGISTRATION NUMBER: 41,113
REFERENCE/DOCKET NUMBER: 6131 N CNI
TELECOMMUNICATION INFORMATION:
TELEPHONE: 616-833-0974
TELEFAX: 616-833-8897
INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:
LENGTH: 35 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-09-252-586-10

Alignment Scores:
Pred. No.: 744 Length: 35
Score: 43.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.51% Indels: 0
DB: 4 Gaps: 0

US-09-899-440-18 (1-545) x US-09-252-586-10 (1-35)

OY 160 LysLyspHelysAsnSerThrTyr 167
DB 12 AAAAAGTTCAGACACGACCTAC 35

RESULT 9
US-07-743-245-1/C
Sequence 1, Application US/07743245
Patent No. 5279952
GENERAL INFORMATION:
APPLICANT: Wu, Kun C.
TITLE OF INVENTION: PCR-BASED STRATEGY OF CONSTRUCTING
TITLE OF INVENTION: CHIMERIC DNA MOLECULES
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: 750 Bering Drive, Suite 400
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77057
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/743,245
FILING DATE: 19910809
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: McDaniel, C. Steven
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713-787-1400
TELEFAX: 713-789-2679
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 40 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: unknown
IMMEDIATE SOURCE:
CLONE: HYPOTHETICAL SEQUENCE
US-07-743-245-1

Alignment Scores:
Pred. No.: 940 Length: 40
Score: 43.00 Matches: 5
Percent Similarity: 84.62% Conservative: 5
Best Local Similarity: 46.15% Mismatches: 2
Query Match: 1.51% Indels: 0
DB: 1 Gaps: 0

US-09-899-440-18 (1-545) x US-07-743-245-1 (1-40)

OY 7 ProAlaLeuProProLeuLeuMetLeuLeuLeu 19
DB 39 CCTCCTCCTCCTCCTCCTGATGATGATGATGATG 1

RESULT 10
US-08-448-619-2/C
Sequence 2, Application US/08448619
Patent No. 6140059
GENERAL INFORMATION:
APPLICANT: Schwallier, Manfred
TITLE OF INVENTION: METHOD FOR THE ORIENTATION OF NATIVE
TITLE OF INVENTION: DOMAINS OF VIRAL MEMBRANE PROTEINS, THEIR USE, ESPECIALLY
TITLE OF INVENTION: AS VACCINE AGAINST HIV, AND THESE NATIVE DOMAINS OF VIRAL
TITLE OF INVENTION: MEMBRANE PROTEINS THEMSELVES
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hardaway Law Firm
STREET: P.O. Box 10107 Federal Station
CITY: Greenville
STATE: SC
COUNTRY: USA
ZIP: 29603-0107
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/448,619
FILING DATE: 29-SEP-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/DE94/00022
FILING DATE: 12-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 43 01 017.2
FILING DATE: 16-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hardaway III, John B.
REGISTRATION NUMBER: 26,554
REFERENCE/DOCKET NUMBER: RPE-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 864-233-6700
TELEFAX: 864-233-2284
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 39 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Oligonucleotide"
US-08-448-619-2

Alignment Scores:
Pred. No.: 1,59e+03 Length: 39
Score: 41.00 Matches: 7
Percent Similarity: 87.50% Conservative: 0
Best Local Similarity: 87.50% Mismatches: 1
Query Match: 1.44% Indels: 0
DB: 3 Gaps: 0

US-09-899-440-18 (1-545) x US-08-448-619-2 (1-39)

OY 20 GlyProLeuGlyProLeuSerPro 27
DB 37 GGTCCCTTGACCTCTGTGACCG 14

RESULT 11
US-08-448-619-3
Sequence 3, Application US/08448619
Patent No. 6140059

GENERAL INFORMATION:
APPLICANT: Schwallier, Manfred
TITLE OF INVENTION: METHOD FOR THE OBTENTION OF NATIVE
TITLE OF INVENTION: DOMAINS OF VIRAL MEMBRANE PROTEINS, THEIR USE, ESPECIALLY
TITLE OF INVENTION: AS VACCINE AGAINST HIV, AND THESE NATIVE DOMAINS OF VIRAL
TITLE OF INVENTION: MEMBRANE PROTEINS THEMSELVES
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hardway Law Firm
STREET: P.O. Box 10107 Federal Station
CITY: Greenville
STATE: SC
COUNTRY: USA
ZIP: 29603-0107
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/448,619
FILING DATE: 29-SEP-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/DE94/00022
FILING DATE: 12-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 43 01 017.2
FILING DATE: 16-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hardway III, John B.
REGISTRATION NUMBER: 26,554
REFERENCE/DOCKET NUMBER: RPE-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 864-233-6700
TELEFAX: 864-233-2284
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 39 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Oligonucleotide"
US-08-448-619-3

Alignment Scores:
Pred. No.: 1.59e+03 Length: 39
Score: 41.00 Matches: 7
Percent Similarity: 87.50% Conservative: 0
Best Local Similarity: 87.50% Mismatches: 1
Query Match: 1.44% Indels: 0
DB: 3 Gaps: 0

US-09-899-440-18 (1-545) x US-08-448-619-3 (1-39)
QY 20 GlyProLeuGlyProLeuSerPro 27
DB 7 GGTCCCTTGACCTCTTGACCG 30

RESULT 12
US-09-113-168-2/c
Sequence 2, Application US/09113168
Patent No. 6190875
GENERAL INFORMATION:
APPLICANT: Hanna Ben-Artzi et al.
TITLE OF INVENTION: METHOD OF SCREENING FOR POTENTIAL ANTI-
METASTATIC AND ANTI-INFLAMMATORY AGENTS USING
MAMMALIAN HEPARANASE AS A PROBE
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
STREET: 20001 Jefferson Davis Highway, Suite 207

CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead* Slimnote-890TX
OPERATING SYSTEM: MS DOS version 6.2,
Windows version 3.11
SOFTWARE: Word for Windows version 2.0 converted to
an ASCII file
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/113,168
FILING DATE: 10-JUL-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/922,180
FILING DATE: September 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Friedman, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 910/8
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-562553
TELEFAX: 972-3-562554
TELEX: <unknown>
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 21
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-113-168-2

Alignment Scores:
Pred. No.: 711 Length: 21
Score: 40.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.40% Indels: 0
DB: 4 Gaps: 0

US-09-899-440-18 (1-545) x US-09-113-168-2 (1-21)
QY 362 AlaAlaGlyPheMetTrpLeu 368
DB 21 GCAGCTGGCTTATGTGCTG 1

RESULT 13
US-08-686-968C-128
Sequence 128, Application US/08686968C
Patent No. 6221361
GENERAL INFORMATION:
APPLICANT: Cochran, Mark D.
TITLE OF INVENTION: Recombinant Swinepox Virus
FILE REFERENCE: 39119-H/JML
CURRENT APPLICATION NUMBER: US/08/686,968C
CURRENT FILING DATE: 1996-07-25
NUMBER OF SEQ ID NOS: 231
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 128
LENGTH: 36
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Homology
US-08-686-968C-128

Alignment Scores:
Pred. No.: 1.83e+03 Length: 36

Score: 40.00 Matches: 7
Percent Similarity: 90.91% Conservative: 3
Best Local Similarity: 63.64% Mismatches: 1
Query Match: 1.40% Indels: 0
DB: 4 Gaps: 0

US-09-899-440-18 (1-545) x US-08-686-968C-128 (1-36)

QY 162 PheylsAnSerThyTyrSerArgSerSerVal 172
DB 2 TTTAAATAAGACTACTGACGACGACTCTTA 34

RESULT 14
PCT-US94-10617-5/c
Sequence 5, Application PC/TUS9410617
GENERAL INFORMATION:
APPLICANT: Bockman, Jeffrey M.
APPLICANT: Drivas, George T.
APPLICANT: Rush, Mark G.
APPLICANT: Shih, Andy
TITLE OF INVENTION: Ribozyme-Based Compositions for the Modification
TITLE OF INVENTION: of Cutaneous Phenotypes associated with Aging
TITLE OF INVENTION: and Other Conditions of the Skin and Hair
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESS: Andy Shih
STREET: 30 Chestnut Drive
CITY: Hastings-On-Hudson
STATE: New York
COUNTRY: USA
ZIP: 10706
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/10617
FILING DATE: 15-SEP-1994
CLASSIFICATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 914-478-1911
TELEFAX: 212-750-3977
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: RNA (genomic)
HYPOTHEICAL: NO
ANTI-SENSE: NO
IMMEDIATE SOURCE:
CLONE: AATR21
PCT-US94-10617-5

Alignment Scores:
Pred. No.: 1.92e+03 Length: 37
Score: 40.00 Matches: 7
Percent Similarity: 72.73% Conservative: 1
Best Local Similarity: 63.64% Mismatches: 3
Query Match: 1.40% Indels: 0
DB: 5 Gaps: 0

US-09-899-440-18 (1-545) x PCT-US94-10617-5 (1-37)

QY 484 ProlenGlyProHisGlyLeuSerIysSer 494
DB 34 CCATTTCGTCCTCAGCAGCTCATCAGCAACAGC 2

RESULT 15
US-08-393-157-1/c
Sequence 1, Application US/08393157

Patent No. 6080840
GENERAL INFORMATION:
APPLICANT: Alfred E. Slanetz
APPLICANT: Alfred L.M. Bothwell
TITLE OF INVENTION: Soluble T Cell Receptors
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Brumbaugh, Graves, Donohue & Raymond
STREET: 30 Rockefeller Plaza
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10112-0228
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 5.25 inch, 360 Kb
COMPUTER: IBM XT compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/393,157
FILING DATE: 17 February 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/822,538
FILING DATE: 17 January 1992
APPLICATION NUMBER: 08/168,782
FILING DATE: 14 December 1993
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
HYPOTHEICAL:
ANTI-SENSE: NO
IMMEDIATE SOURCE:
US-08-393-157-1

Alignment Scores:
Pred. No.: 1.19e+03 Length: 24
Score: 39.00 Matches: 6
Percent Similarity: 85.71% Conservative: 0
Best Local Similarity: 85.71% Mismatches: 1
Query Match: 1.37% Indels: 0
DB: 3 Gaps: 0

US-09-899-440-18 (1-545) x US-08-393-157-1 (1-24)

QY 293 AspSerValThrPHisHis 299
DB 22 GATTCGCCAAGCTGCATCAGC 2

Search completed: January 10, 2003, 14:19:39
Job time : 64 secs

GenCore version 5.1.3
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OM protein - nucleic search, using frame_plus_p2n model

Run on: January 10, 2003, 12:22:52 ; Search time 4267 Seconds
(without alignments)
3717.138 Million cell updates/sec

Title: US-09-899-440-18
Perfect score: 2850
Sequence: 1 MLRSKPALPPPLMLLLG.....LPAPSYFFYINAKVAACI 545

Scoring table:
BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2054640 seqs, 14551402878 residues
Total number of hits satisfying chosen parameters: 774614

Minimum DB seq length: 0
Maximum DB seq length: 40

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlh
-O=/cgm2.1/USPTO.spool/US09899440/runat.08012003.124403.23158/app.query.fasta_1.711
-DB=genembl -OPMT=fastap -SUFFIX=rge -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=biosum62 -TRANS=human40.cdt -LIST=45
-DOCLIN=200 -THR.SCORE=pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTPMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=40
-USER=US09899440.ecgn.1.1.2586.@runat.08012003.124403.23158 -NCPU=6 -ICPU=3
-NO.XLPHY -NO.MAP -LARGOQUERY -NEG.SCORES=0 -WAIT -LONGLOG -DEV.TIMEOUT=120
-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :
GenEmbl:*
1: gb_ba:*
2: gb_hlg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*

29: em_vl:*
30: em_hlg_hum:*
31: em_hlg_inv:*
32: em_hlg_other:*
33: em_hlg_mus:*
34: em_hlg_pln:*
35: em_hlg_rod:*
36: em_hlg_mem:*
37: em_hlg_vrt:*
38: em_sy:*
39: em_hlg_hum:*
40: em_higo_mus:*
41: em_higo_other:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	53	1.9	24 6 AR080673	AR080673 Sequence
2	53	1.9	24 6 AR080678	AR080678 Sequence
3	53	1.9	24 6 AR125608	AR125608 Sequence
4	47	1.6	36 6 AR084542	AR084542 Sequence
5	47	1.6	40 6 AR210042	AR210042 Sequence
6	46	1.6	32 6 AR194203	AR194203 Sequence
7	43	1.5	35 6 AR210048	AR210048 Sequence
8	42	1.5	38 6 AX228017	AX228017 Sequence
9	42	1.5	40 6 E49126	E49126 Novel G pro
10	42	1.5	40 6 E50836	E50836 Novel G pro
11	41	1.4	39 6 AR116990	AR116990 Sequence
12	41	1.4	39 6 AR116991	AR116991 Sequence
13	41	1.4	40 6 AX033446	AX033446 Sequence
14	41	1.4	21 6 AR130850	AR130850 Sequence
15	40	1.4	36 6 AR147063	AR147063 Sequence
16	40	1.4	37 6 AX345802	AX345802 Sequence
17	40	1.4	38 6 AX218488	AX218488 Sequence
18	40	1.4	38 6 AX219627	AX219627 Sequence
19	40	1.4	38 6 AX219738	AX219738 Sequence
20	40	1.4	38 6 AX222547	AX222547 Sequence
21	40	1.4	38 6 AX222581	AX222581 Sequence
22	40	1.4	38 6 AX222637	AX222637 Sequence
23	40	1.4	38 6 AX227946	AX227946 Sequence
24	40	1.4	38 6 AX228234	AX228234 Sequence
25	40	1.4	38 6 AX228273	AX228273 Sequence
26	40	1.4	38 6 AX424787	AX424787 Sequence
27	39	1.4	24 6 AR100659	AR100659 Sequence
28	39	1.4	24 6 AX147949	AX147949 Sequence
29	39	1.4	31 6 AX248770	AX248770 Sequence
30	39	1.4	31 6 AX248796	AX248796 Sequence
31	39	1.4	36 6 A41187	A41187 Sequence 5
32	39	1.4	36 6 S73017	S73017 Homo sapien
33	39	1.4	38 6 AX222639	AX222639 Sequence
34	39	1.4	40 6 AX428592	AX428592 Sequence
35	38	1.3	23 6 AR080677	AR080677 Sequence
36	38	1.3	23 6 AR125607	AR125607 Sequence
37	38	1.3	27 6 A91900	A91900 Sequence 4
38	38	1.3	27 6 AR106366	AR106366 Sequence
39	38	1.3	27 6 AX032403	AX032403 Sequence
40	38	1.3	27 13 AX032409	AX032409 Sequence
41	38	1.3	28 6 AR194201	AR194201 Sequence
42	38	1.3	29 6 AR194207	AR194207 Sequence
43	38	1.3	35 6 AR194193	AR194193 Sequence
44	38	1.3	35 6 AX015343	AX015343 Sequence
45	38	1.3	38 6 A13910	A13910 Nucleotide

RESULT 1

ALIGNMENTS

AR080673/c 24 bp DNA linear PAT 31-AUG-2000
LOCUS AR080673
DEFINITION Sequence 2 from patent US 5968822.
ACCESSION AR080673
VERSION AR080673.1 GI:10007403
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Pecker, I., Vlodavsky, I. and Feinstein, E.
TITLE Polynucleotide encoding a polypeptide having heparanase activity
JOURNAL Patent: US 5968822-A 2 19-OCT-1999;
FEATURES
source 1..24
location/Qualifiers
BASE COUNT 7 a 4 c 6 g 7 t
ORIGIN
Alignment Scores:
Pred. No.: 1.22e+03 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: Gaps: 0
US-09-899-440-18 (1-545) x AR080673 (1-24)
QY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTGAGTTACATGCGATCAGTAC 1
RESULT 2
LOCUS AR080678 24 bp DNA linear PAT 31-AUG-2000
DEFINITION Sequence 7 from patent US 5968822.
ACCESSION AR080678
VERSION AR080678.1 GI:10007408
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Pecker, I., Vlodavsky, I. and Feinstein, E.
TITLE Polynucleotide encoding a polypeptide having heparanase activity
JOURNAL Patent: US 5968822-A 7 19-OCT-1999;
FEATURES
source 1..24
location/Qualifiers
BASE COUNT 7 a 4 c 6 g 7 t
ORIGIN
Alignment Scores:
Pred. No.: 1.22e+03 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: Gaps: 0
US-09-899-440-18 (1-545) x AR080678 (1-24)
QY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTGAGTTACATGCGATCAGTAC 1
RESULT 3
LOCUS AR125608 24 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 7 from patent US 6177545.
ACCESSION AR125608
VERSION AR125608.1 GI:10011670
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Pecker, I., Vlodavsky, I., Friedman, Y. and Perets, T.
TITLE Heparanase specific molecular probes and their use in research and
JOURNAL medical applications
JOURNAL Patent: US 6177545-A 7 23-JAN-2001;
FEATURES
source 1..24
location/Qualifiers
BASE COUNT 7 a 4 c 6 g 7 t
ORIGIN
Alignment Scores:
Pred. No.: 1.22e+03 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: Gaps: 0
US-09-899-440-18 (1-545) x AR125608 (1-24)
QY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTGAGTTACATGCGATCAGTAC 1
RESULT 4
LOCUS AR084542 36 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 31 from patent US 5981185.
ACCESSION AR084542
VERSION AR084542.1 GI:10011313
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 36)
AUTHORS Matson, R.S., Coassin, P.J., Rampal, J.B. and Caskey, C. Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 31 09-NOV-1999;
FEATURES
source 1..36
location/Qualifiers
BASE COUNT 8 a 12 c 16 g 0 t
ORIGIN
Alignment Scores:
Pred. No.: 7.16e+03 Length: 36
Score: 47.00 Matches: 9
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 90.00% Mismatches: 0
Query Match: 1.65% Indels: 0
DB: Gaps: 0
US-09-899-440-18 (1-545) x AR084542 (1-36)
QY 10 PropProPoleuLeuMetLeuLeuLeu 19
DB 34 CCGCGCGCGCTGCTGCTGCTGCTGCTG 5
RESULT 5
LOCUS AR210042 40 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 4 from patent US 6387643.
ACCESSION AR210042
VERSION AR210042.1 GI:21512169
KEYWORDS
SOURCE Unknown.

AR125608 24 bp DNA linear PAT 16-MAY-2001
LOCUS AR125608
DEFINITION Sequence 7 from patent US 6177545.
ACCESSION AR125608
VERSION AR125608.1 GI:10011670
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Pecker, I., Vlodavsky, I., Friedman, Y. and Perets, T.
TITLE Heparanase specific molecular probes and their use in research and
JOURNAL medical applications
JOURNAL Patent: US 6177545-A 7 23-JAN-2001;
FEATURES
source 1..24
location/Qualifiers
BASE COUNT 7 a 4 c 6 g 7 t
ORIGIN
Alignment Scores:
Pred. No.: 1.22e+03 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: Gaps: 0
US-09-899-440-18 (1-545) x AR125608 (1-24)
QY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTGAGTTACATGCGATCAGTAC 1
RESULT 4
LOCUS AR084542 36 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 31 from patent US 5981185.
ACCESSION AR084542
VERSION AR084542.1 GI:10011313
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 36)
AUTHORS Matson, R.S., Coassin, P.J., Rampal, J.B. and Caskey, C. Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 31 09-NOV-1999;
FEATURES
source 1..36
location/Qualifiers
BASE COUNT 8 a 12 c 16 g 0 t
ORIGIN
Alignment Scores:
Pred. No.: 7.16e+03 Length: 36
Score: 47.00 Matches: 9
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 90.00% Mismatches: 0
Query Match: 1.65% Indels: 0
DB: Gaps: 0
US-09-899-440-18 (1-545) x AR084542 (1-36)
QY 10 PropProPoleuLeuMetLeuLeuLeu 19
DB 34 CCGCGCGCGCTGCTGCTGCTGCTGCTG 5
RESULT 5
LOCUS AR210042 40 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 4 from patent US 6387643.
ACCESSION AR210042
VERSION AR210042.1 GI:21512169
KEYWORDS
SOURCE Unknown.

ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 40)
AUTHORS Heinrichson,R.Leroy., Fairbanks,M.B. and Milder,A.M.
TITLE Human platelet heparanase polypeptides, polynucleotide molecules that encode them, and methods for the identification of compounds that alter heparanase activity
JOURNAL Patent: US 6387643-A 14-MAY-2002;
FEATURES Location/Qualifiers
SOURCE 1..40
/organism="unknown"
BASE COUNT 16 a 10 c 7 g 7 t
ORIGIN

Alignment Scores:
Pred. No.: 8.26e+03 Length: 40
Score: 47.00 Matches: 9
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.65% Indels: 0
DB: 6 Gaps: 0

US-09-899-440-18 (1-545) x AR210042 (1-40)
OY 160 LysLysPheLysAsnSerThrTyrSer 168
DB 14 AAAAAGTTCAGACACACCTACTCA 40

RESULT 6
LOCUS AR194203/c AR194203 32 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 18 from patent US 6348344.
ACCESSION AR194203
VERSION AR194203.1 GI:20240795
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 32)
AUTHORS Ayal-Hershtkovitz,M., Moskowitz,H., Miron,D., Gilboa,A., Miron,M., Ben-Artzi,H., Yacoby-Zeevi,O., Pecker,I., Peleg,Y. and Schlomi,Y.
TITLE Genetically modified cells and methods for expressing recombinant heparanase and methods of purifying same
JOURNAL Patent: US 6348344-A 18-19-FEB-2002;
FEATURES Location/Qualifiers
SOURCE 1..32
/organism="unknown"
BASE COUNT 8 a 11 c 4 g 9 t
ORIGIN

Alignment Scores:
Pred. No.: 7.47e+03 Length: 32
Score: 46.00 Matches: 8
Percent Similarity: 88.89% Conservative: 0
Best Local Similarity: 88.89% Mismatches: 1
Query Match: 1.61% Indels: 0
DB: 6 Gaps: 0

US-09-899-440-18 (1-545) x AR194203 (1-32)
OY 114 PheGluGluArgSerTyrTrpGlnSer 122
DB 31 TTTTGAAGAGAGATTACTGGCATCG 5

RESULT 7
LOCUS AR210048 AR210048 35 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 10 from patent US 6387643.
ACCESSION AR210048
VERSION AR210048.1 GI:21512177
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

Unclassified.
REFERENCE 1 (bases 1 to 35)
AUTHORS Heinrichson,R.Leroy., Fairbanks,M.B. and Milder,A.M.
TITLE Human platelet heparanase polypeptides, polynucleotide molecules that encode them, and methods for the identification of compounds that alter heparanase activity
JOURNAL Patent: US 6387643-A 10-14-MAY-2002;
FEATURES Location/Qualifiers
SOURCE 1..35
/organism="unknown"
BASE COUNT 15 a 8 c 6 g 6 t
ORIGIN

Alignment Scores:
Pred. No.: 1.55e+04 Length: 35
Score: 43.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.51% Indels: 0
DB: 6 Gaps: 0

US-09-899-440-18 (1-545) x AR210048 (1-35)
OY 160 LysLysPheLysAsnSerThrTyr 167
DB 12 AAAAAGTTCAGACACACCTTAC 35

RESULT 8
LOCUS AX228017 AX228017 38 bp mRNA linear PAT 10-SEP-2001
DEFINITION Sequence 1389 from Patent WO0157206.
ACCESSION AX228017
VERSION AX228017.1 GI:15557158
KEYWORDS
SOURCE synthetic construct.
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 38)
AUTHORS Fattaey,A.R., Jarvis,T., Meswigen,J., Bocher,R.N. and Holman,P.S.
TITLE Method and reagent for the inhibition of checkpoint kinase-1 (chk 1) enzyme
JOURNAL Patent: WO 0157206-A 1389 09-AUG-2001;
FEATURES RIBOZYME PHARMACEUTICALS, INC. (US) ; Fattaey, All R. (US)
SOURCE Location/Qualifiers
1..38
/organism="synthetic construct"
/db_xref="taxon:32630"
BASE COUNT 9 a 7 c 14 g 8 t
ORIGIN

Alignment Scores:
Pred. No.: 2.12e+04 Length: 38
Score: 42.00 Matches: 8
Percent Similarity: 81.82% Conservative: 1
Best Local Similarity: 72.73% Mismatches: 2
Query Match: 1.47% Indels: 0
DB: 6 Gaps: 0

US-09-899-440-18 (1-545) x AX228017 (1-38)
OY 480 TyrLeuLeuArgProLeuGlyProHisGlyLeu 490
DB 6 TATCTGATGAGCGCTTAGGCGGAAAGGGCGTG 38

RESULT 9
LOCUS E49126 E49126 40 bp DNA linear PAT 31-JAN-2002
DEFINITION Novel G protein-conjugated receptor protein.
ACCESSION E49126
VERSION E49126.1 GI:18629263
KEYWORDS JP 2001029083-A/4.
SOURCE Homo sapiens.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 40)
 Takasaki, A., Matsumoto, M., Sugimoto, T., Kamahara, M. and Saito, S.
 Novel G protein-coupled receptor protein
 Patent: JP 2001029083-A 4 06-FEB-2001;
 YAMANOUCHI PHARMACEUT CO LTD
 OS Homo sapiens (human)
 PN JP 2001029083-A/4
 PD 06-FEB-2001
 PF 23-JUL-1999 JP 1999209918
 PR
 PI ATSUSHI TAKASAKI, MITSUYUKI MATSUMOTO, TAKASHI SUGIMOTO, PI
 MASAZUMI KAMAHARA,
 PI SATOSHI SAITO
 PC C12N15/09, A61K38/00, A61K39/395, A61K39/395, A61K45/00, A61P25/04,
 A61P25/16,
 PC A61P25/18, C07K14/705, C12N5/10, C12P21/02, C12P21/08, C12Q1/68, PC
 G01N33/15
 PC G01N33/50, G01N33/53, G01N33/566, C12N15/00, A61K37/02, C12N5/00 CC

FEATURES
 source
 FH key Location/Qualifiers
 FT source 1..40
 /organism="Homo sapiens"
 /db_xref="taxon:9606" 18 t

BASE COUNT 10 a 8 c 4 g 18 t
 ORIGIN

Alignment Scores:
 Pred. No.: 2.27e+04 Length: 40
 Score: 42.00 Matches: 7
 Percent Similarity: 92.31% Conservative: 5
 Best Local Similarity: 53.85% Mismatches: 1
 Query Match: 1.47% Indels: 0
 DB: 6 Gaps: 0

US-09-899-440-18 (1-545) x E49126 (1-40)
 QY 72 ArgpHeu1leu1eu1eu1SerPro1y1eu1ArgThr 84
 Db 40 AAGTATATGATCTCTATAGAAAGTCCAAAGTAGAGACA 2

RESULT 10
 E50836/c
 LOCUS E50836 40 bp DNA linear PAT 31-JAN-2002
 DEFINITION Novel G protein-coupled receptor.
 ACCESSION E50836
 VERSION E50836.1 GI:18633541
 KEYWORDS JP 2001054389-A/4.
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 40)
 Takasaki, A., Matsumoto, M., Sugimoto, T., Kamahara, M. and Saito, S.
 Novel G protein-coupled receptor
 Patent: JP 2001054389-A 4 27-FEB-2001;
 YAMANOUCHI PHARMACEUT CO LTD
 OS Homo sapiens (human)
 PN JP 2001054389-A/4
 PD 27-FEB-2001
 PF 17-AUG-1999 JP 1999230777
 PR
 PI ATSUSHI TAKASAKI, MITSUYUKI MATSUMOTO, TAKASHI SUGIMOTO, PI
 MASAZUMI KAMAHARA,
 PI SATOSHI SAITO
 PC C12N15/09, C07K14/705, C07K16/28, C12N1/15, C12N1/19, C12N1/21, PC
 C12N5/10
 PC C12P21/02, G01N33/15, G01N33/50//C12P21/08, (C12P21/02, C12R1.91),
 PC C12N15/00,

PC C12N5/00
 CC
 FH key Location/Qualifiers
 FT source 1..40
 /organism="Homo sapiens"
 /db_xref="taxon:9606" 18 t

BASE COUNT 10 a 8 c 4 g 18 t
 ORIGIN

Alignment Scores:
 Pred. No.: 2.27e+04 Length: 40
 Score: 42.00 Matches: 7
 Percent Similarity: 92.31% Conservative: 5
 Best Local Similarity: 53.85% Mismatches: 1
 Query Match: 1.47% Indels: 0
 DB: 6 Gaps: 0

US-09-899-440-18 (1-545) x E50836 (1-40)
 QY 72 ArgpHeu1leu1eu1eu1SerPro1y1eu1ArgThr 84
 Db 40 AAGTATATGATCTCTATAGAAAGTCCAAAGTAGAGACA 2

RESULT 11
 ARI16990/c
 LOCUS ARI16990 39 bp DNA linear PAT 16-MAY-2001
 DEFINITION Sequence 2 from patent US 6140059.
 ACCESSION ARI16990
 VERSION ARI16990.1 GI:14097896
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 Unclassified.
 1 (bases 1 to 39)
 Schwallier, M.
 Methods for the obtention of human immunodeficiency virus Type 1
 envelope glycoproteins in native and oligomeric form employing
 recombinant chimeric antigens containing collagenase recognition
 sites
 Patent: US 6140059-A 2 31-OCT-2000;
 JOURNAL Location/Qualifiers
 FEATURES source 1..39
 /organism="unknown"
 BASE COUNT 10 a 10 c 12 g 7 t
 ORIGIN

Alignment Scores:
 Pred. No.: 2.69e+04 Length: 39
 Score: 41.00 Matches: 7
 Percent Similarity: 87.50% Conservative: 0
 Best Local Similarity: 87.50% Mismatches: 1
 Query Match: 1.44% Indels: 0
 DB: 6 Gaps: 0

US-09-899-440-18 (1-545) x ARI16990 (1-39).
 QY 20 GlypHeu1eu1eu1SerPro 27
 Db 37 GGTCCCTTGAGCCTTGAGCG 14

RESULT 12
 ARI16991
 LOCUS ARI16991 39 bp DNA linear PAT 16-MAY-2001
 DEFINITION Sequence 3 from patent US 6140059.
 ACCESSION ARI16991
 VERSION ARI16991.1 GI:14097897
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 Unclassified.

REFERENCE 1 (bases 1 to 39)
AUTHORS Schwallier, M.
TITLE Methods for the obtention of human immunodeficiency virus Type 1 envelope glycoproteins in native and oligomeric form employing recombinant chimeric antigens containing collagenase recognition sites
JOURNAL Patent: US 6140059-A 3 31-OCT-2000;
FEATURES Location/Qualifiers
source 1..39
BASE COUNT 7 a 12 c 10 g 10 t
ORIGIN
Alignment Scores:
Pred. No.: 2.69e+04 Length: 39
Score: 41.00 Matches: 7
Percent Similarity: 87.50% Conservative: 0
Best Local Similarity: 87.50% Mismatches: 1
Query Match: 1.44% Indels: 0
DB: 6 Gaps: 0
US-09-899-440-18 (1-545) x ARI16991 (1-39)
QY 20 GlyProLeuGlyProLeuSerPro 27
Db 7 GGTCCCTTGACCTTGACCG 30
RESULT 13
LOCUS AX033446 40 bp DNA linear PAT 21-SEP-2000
DEFINITION Sequence 27 from Patent W00044896.
ACCESSION AX033446
VERSION AX033446.1 GI:10280207
KEYWORDS
SOURCE synthetic construct.
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 40)
AUTHORS Beyaert, R. and Cornelis, S.
TITLE Internal ribosome entry site (IRES), vector containing same and uses thereof
JOURNAL Patent: WO 0044896-A 27 03-AUG-2000;
FEATURES Location/Qualifiers
source 1..40
BASE COUNT 6 a 15 c 13 g 6 t
ORIGIN
Alignment Scores:
Pred. No.: 2.78e+04 Length: 40
Score: 41.00 Matches: 7
Percent Similarity: 66.67% Conservative: 1
Best Local Similarity: 58.33% Mismatches: 4
Query Match: 1.44% Indels: 0
DB: 6 Gaps: 0
US-09-899-440-18 (1-545) x AX033446 (1-40)
QY 344 GlyGluThrSerSerAlaTyrGlyGlyAlaPro 355
Db 5 GGTTCACGCGATCCGATACGCTCCGCGCAGCT 40
RESULT 14
LOCUS ARI30850 21 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 2 from patent US 6190875.
ACCESSION ARI30850
VERSION ARI30850.1 GI:14119175
KEYWORDS

SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Ben-Artzi, H., Ayal, Hershkovitz, M., Vladavsky, I., Becker, I., Peleg, Y., and Milon, D.
TITLE Method of screening for potential anti-metastatic and anti-inflammatory agents using mammalian heparanase as a probe
JOURNAL Patent: US 6190875-A 2 20-FEB-2001;
FEATURES Location/Qualifiers
source 1..21
BASE COUNT 7 a 8 c 4 g 2 t
ORIGIN
Alignment Scores:
Pred. No.: 1.42e+04 Length: 21
Score: 40.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.40% Indels: 0
DB: 6 Gaps: 0
US-09-899-440-18 (1-545) x ARI30850 (1-21)
QY 362 AlaAlaGlyPheMetTyrLeu 368
Db 21 GCAGCTGGCTTATGTGCTG 1
RESULT 15
LOCUS ARI47063 36 bp DNA linear PAT 08-AUG-2001
DEFINITION Sequence 128 from patent US 6221361.
ACCESSION ARI47063
VERSION ARI47063.1 GI:15110866
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 36)
AUTHORS Cochran, M.D. and Junker, D.E.
TITLE Recombinant swinepox virus
JOURNAL Patent: US 6221361-A 128 24-APR-2001;
FEATURES Location/Qualifiers
source 1..36
BASE COUNT 12 a 7 c 6 g 11 t
ORIGIN
Alignment Scores:
Pred. No.: 2.95e+04 Length: 36
Score: 40.00 Matches: 7
Percent Similarity: 90.91% Conservative: 3
Best Local Similarity: 63.64% Mismatches: 1
Query Match: 1.40% Indels: 0
DB: 6 Gaps: 0
US-09-899-440-18 (1-545) x ARI47063 (1-36)
QY 162 PheLysAsnSerThrTyrSerArgSerSerVal 172
Db 2 TTTAAATATACGACTTACTGCAAGTGCAGCTCA 34
Search completed: January 10, 2003, 13:41:54
Job time : 4269 secs

GenCore version 5.1.3
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OM protein - nucleic search, using frame_plus_p2n model

Run on: January 10, 2003, 11:16:56 ; Search time 312 Seconds
(without alignments)
3933.779 Million cell updates/sec

Title: US-09-899-440-18
Perfect score: 2850
Sequence: 1 MLRSKPALPPPLMLLLG.....LPAFSYFVIRNAKVAACI 545

Scoring table:
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Delop 6.0, Delext 7.0

Searched: 2185239 segs, 112599159 residues

Total number of hits satisfying chosen parameters: 2063506

Minimum DB seq length: 0
Maximum DB seq length: 40

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-MODE=LOCAL -OUTFMT=pro -NOR=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=40
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-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	53	1.9	24	AAK35643	PCR primer used to
C 2	53	1.9	24	AAK35647	PCR primer used to
C 3	53	1.9	24	AAK35647	PCR primer HPL229
C 4	53	1.9	24	AAK35647	PCR primer HPL229
C 5	53	1.9	24	AAK35647	PCR primer HPL 229
C 6	53	1.9	24	AAK35647	Human heparanase P
C 7	47	1.6	30	ABN86005	Human heparanase g
C 8	47	1.6	40	AAK211239	PCR primer for hum
C 9	46	1.6	40	AAK211239	Heparanase express
C 10	43	1.5	35	AAK167044	Human heparanase-1
C 11	43	1.5	25	AAK11243	PCR primer for hum
C 12	43	1.5	40	AAK11243	Flanking sequences
C 13	42	1.5	38	AAK96175	Human CHK1 ribozym
C 14	42	1.5	40	AAK81504	Novel human g prot
C 15	42	1.5	40	AAK81504	DNA associated wit
C 16	41	1.4	24	AAK58530	Human PRO433 (UNG
C 17	41	1.4	29	AAK33817	S. pneumoniae BVH-
C 18	41	1.4	40	AAK33817	E-tag probe used t
C 19	41	1.4	40	ABL51648	Human heparanase p
C 20	40	1.4	21	AAK28836	Embryo implantatio
C 21	40	1.4	24	AAK52391	Ebola virus struct
C 22	40	1.4	33	AAK287200	Human collagen gen
C 23	40	1.4	36	AAK11862	Ribozyme gene inse
C 24	40	1.4	37	AAK37184	Elastase target mr
C 25	40	1.4	37	AAK33545	Porphyromonas ging
C 26	40	1.4	37	AAK31981	Oligonucleotide JC
C 27	40	1.4	37	AAK31981	Human CHK1 ribozym
C 28	40	1.4	38	AAK96104	Human CHK1 ribozym
C 29	40	1.4	38	AAK96392	Human CHK1 ribozym
C 30	40	1.4	38	AAK96431	Human CHK1 ribozym
C 31	40	1.4	38	ABK03930	Human NCOG Hammeth
C 32	40	1.4	38	ABK05069	Human NCOG Inozyme
C 33	40	1.4	38	ABK05180	Human NCOG Inozyme
C 34	40	1.4	38	ABK07989	Human C20 Hammeth
C 35	40	1.4	38	ABK08023	Human C20 Hammeth
C 36	40	1.4	38	ABK08023	Human C20 Hammeth
C 37	40	1.4	38	ABK08029	Human C20 Hammeth
C 38	40	1.4	38	ABK58424	Human C20 Hammeth
C 39	40	1.4	38	ABK20476	Human ERG Inozyme
C 40	40	1.4	40	AAK29591	Polynucleotide seq
C 41	39	1.4	40	AAK55862	Trypanophanyl-trna
C 42	39	1.4	24	AAK62949	Chimeric alpha TCR
C 43	39	1.4	30	AAK20942	Human heparanase 1
C 44	39	1.4	31	ABN86004	Human heparanase g
C 45	39	1.4	31	AAK30361	Human single nucle

ALIGNMENTS

RESULT 1
AAK35643/c
ID AAK35643 standard; DNA; 24 BP.

XX AAK35643;
XX
DT 09-JUL-1999 (first entry)

PCR primer used to amplify human hp3 cDNA.

Heparanase: hp: modulator; heparin-binding growth factor;
cellular response; cytokine; cell interaction; plasma lipoprotein;
cellular susceptibility; infection; disintegration;
neurodegenerative plaque; wound healing; angiogenesis; restenosis;
atherosclerosis; inflammation; neurodegenerative disease; neutralise;
plasma heparin; micrometastasis; autoimmune lesion; renal failure;
PCR primer; ss.

OS Synthetic.
XX
XX MO9911798-A1.
XX
XX 11-MAR-1999.
XX
XX 31-AUG-1998; 98MO-US17954.
XX
XX 02-JUL-1998; 98US-0109386.
XX
XX 02-SEP-1997; 97US-0922170.
XX
XX (FRIE/) FRIEDMAN M. M.
XX (HADA-) HADASTI MEDICAL RES SERVICES & DEV.
XX (INST-) INSIGHT STRATEGY & MARKETING LTD.
XX
XX Feinstein E. Pecker I, Vlodavsky I;
XX WPI; 1999-302255/25.
XX
XX New human polynucleotide useful for treating angiogenesis,
XX restenosis, and inflammation
XX
XX Example 1; Page 22; 63pp; English.
XX
XX The specification describes a polypeptide having heparanase (hp)
XX activity. The recombinant protein is used as a modulator of
XX heparin-binding growth factors, cellular responses to heparin-binding
XX growth factors and cytokines, cell interaction with plasma lipoproteins,
XX cellular susceptibility to viral, protozoal and bacterial infections
XX or disintegration of neurodegenerative plaques. Heparanase may be
XX useful for conditions such as wound healing, angiogenesis, restenosis,
XX atherosclerosis, inflammation, neurodegenerative diseases, and viral
XX infections. Mammalian heparanase can be used to neutralize plasma
XX heparin, and anti-heparanase antibodies may be applied for
XX immunodetection and diagnosis of micrometastases, autoimmune lesions,
XX and renal failure in biopsy specimens, plasma samples, and body fluids.
XX PCR primers AAX35642-43 were used to amplify hp3 cDNA, in the course of
XX the invention.
XX
SQ Sequence 24 BP; 7 A; 4 C; 6 G; 7 T; 0 other;
XX
Alignment Scores:
Pred. No.: 439 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 20 Gaps: 0
US-09-899-440-18 (1-545) x AAX35643 (1-24)
OY 293 AppServAlthTTPHlshlstr 300
DB 24 GATTCACTTACATGCATCCTAC 1
RESULT 2
AAX35647/C
ID AAA35647 standard; DNA: 24 BP.
XX
XX AAX35647;
XX
XX 09-JUL-1999 (first entry)
XX
XX PCR primer used to amplify human hp3 cDNA.
XX
XX Heparanase; hp; modulator; heparin-binding growth factor;
XX cellular response; cytokine; cell interaction; plasma lipoprotein;
XX cellular susceptibility; infection; disintegration;
XX neurodegenerative plaque; wound healing; angiogenesis; restenosis;
XX atherosclerosis; inflammation; neurodegenerative disease; neutrophils;
XX plasma heparin; micrometastasis; autoimmune lesion; renal failure;
XX PCR primer; ss.
XX

OS Synthetic.
XX
XX MO9911798-A1.
XX
XX 11-MAR-1999.
XX
XX 31-AUG-1998; 98MO-US17954.
XX
XX 02-JUL-1998; 98US-0109386.
XX
XX 02-SEP-1997; 97US-0922170.
XX
XX (FRIE/) FRIEDMAN M. M.
XX (HADA-) HADASTI MEDICAL RES SERVICES & DEV.
XX (INST-) INSIGHT STRATEGY & MARKETING LTD.
XX
XX Feinstein E. Pecker I, Vlodavsky I;
XX WPI; 1999-302255/25.
XX
XX New human polynucleotide useful for treating angiogenesis,
XX restenosis, and inflammation
XX
XX Example 1; Page 23; 63pp; English.
XX
XX The specification describes a polypeptide having heparanase (hp)
XX activity. The recombinant protein is used as a modulator of
XX heparin-binding growth factors, cellular responses to heparin-binding
XX growth factors and cytokines, cell interaction with plasma lipoproteins,
XX cellular susceptibility to viral, protozoal and bacterial infections
XX or disintegration of neurodegenerative plaques. Heparanase may be
XX useful for conditions such as wound healing, angiogenesis, restenosis,
XX atherosclerosis, inflammation, neurodegenerative diseases, and viral
XX infections. Mammalian heparanase can be used to neutralize plasma
XX heparin, and anti-heparanase antibodies may be applied for
XX immunodetection and diagnosis of micrometastases, autoimmune lesions,
XX and renal failure in biopsy specimens, plasma samples, and body fluids.
XX PCR primers AAX35646-47 were used to amplify hp3 cDNA, in the course of
XX the invention.
XX
SQ Sequence 24 BP; 7 A; 4 C; 6 G; 7 T; 0 other;
XX
Alignment Scores:
Pred. No.: 439 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 20 Gaps: 0
US-09-899-440-18 (1-545) x AAX35647 (1-24)
OY 293 AppServAlthTTPHlshlstr 300
DB 24 GATTCACTTACATGCATCCTAC 1
RESULT 3
AAAT5045/C
ID AAAT5045 standard; DNA: 24 BP.
XX
XX AAAT5045;
XX
XX 15-JAN-2001 (first entry)
XX
XX PCR primer HPL229 used to amplify human cDNA encoding heparanase.
XX
XX Human; heparanase; gene therapy; tumour; inflammation; autoimmunity;
XX heparin-binding growth factor; cytokine; neurodegenerative plaque;
XX wound healing; infection; burn; angiogenesis; restenosis;
XX atherosclerosis; inflammation; neurodegenerative disease;
XX Gerstmann-Strausler Syndrome; Creutzfeldt-Jakob disease; PCR primer; ss.
XX Homo sapiens.
XX

PN WO200052178-A1.
XX 08-SEP-2000.
PD 14-FEB-2000; 2000WO-US03542.
XX 01-MAR-1999; 9905-0258892.
XX (INSI-) INSIGHT STRATEGY & MARKETING LTD.
PA (HADA-) HADASIT MEDICAL RES SERVICES & DEV.
PA (FRIE/) FRIEDMAN M M.
XX Pecker I, Vlodavsky I, Feinstein E;
XX WPI: 2000-579289/54.
XX
PT New polynucleotides encoding a polypeptide having heparanase activity,
PT useful in wound healing and in gene therapy, particularly in treating
PT tumour, inflammation, autoimmunity, neurodegenerative diseases
XX
PS Disclosure; Page 44; 152pp; English.
XX
XX The present PCR primer was used to amplify a human cDNA sequence,
CC which encoded a protein with/heparanase catalytic activity. The
CC heparanase (hpa) polynucleotide is useful in gene therapy, particularly
CC in treating tumour, inflammation or autoimmunity. Particularly, the
CC polynucleotide is useful in modulating the bioavailability of
CC heparin-binding growth factors, cellular responses to heparin-binding
CC growth factors (e.g. bFGF) and cytokines (e.g. Interleukin (IL)-8),
CC cell interaction with plasma lipoproteins, cellular susceptibility to
CC certain viral and some bacterial and protozoa infections, or
CC disintegration of neurodegenerative plaques. The polynucleotide is
CC also useful in wound healing (e.g. thermal, chemical or radiation burns),
CC and in the treatment of angiogenesis, restenosis, atherosclerosis,
CC inflammation, neurodegenerative diseases (Gerstmann-Straussler Syndrome
CC or Creutzfeldt-Jakob disease), and some viral, bacterial or protozoa
CC infections.
XX
SQ Sequence 24 BP; 7 A; 4 C; 6 G; 7 T; 0 other;
XX
XX
XX Alignment Scores:
Pred. No.: 439 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 21 Gaps: 0
US-09-899-440-18 (1-545) x AAA75045 (1-24)
OY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTCAGTTACATGCGATCCTAC 1
RESULT 4
AAA75050/c
ID AAA75050 standard; DNA: 24 BP.
XX
XX AAA75050;
XX
XX 15-JAN-2001 (first entry)
XX
XX PCR primer HPL229 used to amplify human cDNA encoding heparanase.
XX
XX Human: heparanase; gene therapy; tumour; inflammation; autoimmunity;
KW heparin-binding growth factor; cytokine; neurodegenerative plaque;
KW wound healing; infection; burn; angiogenesis; restenosis;
KW atherosclerosis; inflammation; neurodegenerative disease;
KW Gerstmann-Straussler Syndrome; Creutzfeldt-Jakob disease; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX WO200052178-A1.
PN

XX 08-SEP-2000.
XX 14-FEB-2000; 2000WO-US03542.
XX 01-MAR-1999; 9905-0258892.
XX (INSI-) INSIGHT STRATEGY & MARKETING LTD.
PA (HADA-) HADASIT MEDICAL RES SERVICES & DEV.
PA (FRIE/) FRIEDMAN M M.
XX Pecker I, Vlodavsky I, Feinstein E;
XX WPI: 2000-579289/54.
XX
PT New polynucleotides encoding a polypeptide having heparanase activity,
PT useful in wound healing and in gene therapy, particularly in treating
PT tumour, inflammation, autoimmunity, neurodegenerative diseases
XX
PS Disclosure; Page 44; 152pp; English.
XX
XX The present PCR primer was used to amplify a human cDNA sequence,
CC which encoded a protein with heparanase catalytic activity. The
CC heparanase (hpa) polynucleotide is useful in gene therapy, particularly
CC in treating tumour, inflammation or autoimmunity. Particularly, the
CC polynucleotide is useful in modulating the bioavailability of
CC heparin-binding growth factors, cellular responses to heparin-binding
CC growth factors (e.g. bFGF) and cytokines/e.g. Interleukin (IL)-8),
CC cell interaction with plasma lipoproteins, cellular susceptibility to
CC certain viral and some bacterial and protozoa infections, or
CC disintegration of neurodegenerative plaques. The polynucleotide is
CC also useful in wound healing (e.g. thermal, chemical or radiation burns),
CC and in the treatment of angiogenesis, restenosis, atherosclerosis,
CC inflammation, neurodegenerative diseases (Gerstmann-Straussler Syndrome
CC or Creutzfeldt-Jakob disease), and some viral, bacterial or protozoa
CC infections.
XX
SQ Sequence 24 BP; 7 A; 4 C; 6 G; 7 T; 0 other;
XX
XX
XX Alignment Scores:
Pred. No.: 439 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 21 Gaps: 0
US-09-899-440-18 (1-545) x AAA75050 (1-24)
OY 293 AspSerValThrTrpHisHisTyr 300
DB 24 GATTCAGTTACATGCGATCCTAC 1
RESULT 5
AAA75067/c
ID AAA75067 standard; DNA: 24 BP.
XX
XX AAA75067;
XX
XX 15-JAN-2001 (first entry)
XX
XX PCR primer Hpl 229 used to amplify human cDNA encoding heparanase.
XX
XX Human: heparanase; gene therapy; tumour; inflammation; autoimmunity;
KW heparin-binding growth factor; cytokine; neurodegenerative plaque;
KW wound healing; infection; burn; angiogenesis; restenosis;
KW atherosclerosis; inflammation; neurodegenerative disease;
KW Gerstmann-Straussler Syndrome; Creutzfeldt-Jakob disease; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX WO200052178-A1.
PN

PD 08-SEP-2000.
XX
XX 14-FEB-2000; 2000MO-US03542.
XX
XX 01-MAR-1999; 99US-0258892.
XX
XX (INST-) INSIGHT STRATEGY & MARKETING LTD.
PA (HADA-) HADASIT MEDICAL RES SERVICES & DEV.
PA (FRIE/) FRIEDMAN M M.
XX
XX Pecker I, Vlodavsky I, Feinstein E;
PI
XX WPI; 2000-579289/54.
DR
XX
XX New polynucleotides encoding a polypeptide having heparanase activity,
PT useful in wound healing and in gene therapy, particularly in treating
PT tumour, inflammation, autoimmunity, neurodegenerative diseases
XX
XX
XX Disclosure; Page 45; 152pp; English.
XX
XX The present PCR primer was used to amplify a human cDNA sequence,
CC which encoded a protein with heparanase catalytic activity. The
CC heparanase (hpa) polynucleotide is useful in gene therapy, particularly
CC in treating tumour, inflammation or autoimmunity. Particularly, the
CC polynucleotide is useful in modulating the bioavailability of
CC heparin-binding growth factors, cellular responses to heparin-binding
CC growth factors (e.g. bFGF) and cytokines (e.g. interleukin (IL)-8),
CC cell interaction with plasma lipoproteins, cellular susceptibility to
CC certain viral and some bacterial and protozoa infections, or
CC also useful in wound healing (e.g., thermal, chemical or radiation burns),
CC and in the treatment of angiogenesis, restenosis, atherosclerosis,
CC inflammation, neurodegenerative diseases (Gerstmann-Strausler Syndrome
CC or Creutzfeldt-Jakob disease) and some viral, bacterial or protozoa
CC infections.
XX
XX
SQ Sequence 24 BP; 7 A; 4 C; 6 G; 7 T; 0 other;
XX
XX
XX Alignment Scores:
Pred. No.: 439 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 21 Gaps: 0
US-09-899-440-18 (1-545) x AA23294 (1-24)
OY 293 ASPSerValThrTrpHisHisTyr 300
DB 24 GATTTCAGTTACATGCGATCCTACTAC 1
RESULT 6
AA23294/C
ID AA23294 standard; DNA; 24 BP.
XX
XX AA23294;
AC
XX
XX 21-FEB-2000 (first entry)
DT
XX
XX Human heparanase PCR primer Hpl-229 SEQ ID NO:7.
DE
XX
XX Human; heparanase; hpa; diagnosis; therapy; tumour; cytostatic;
KW antidiabetic; immunomodulatory; anti-inflammatory; nephrotropic;
KW metastasis; adenocarcinoma; squamous cell carcinoma; teratocarcinoma;
KW mesothelioma; melanoma; lymphoma; leukemia; cancer; sepsis; diabetes;
KW inflammation; hemorrhagic nephritis; nephrotic syndrome;
KW autoimmune disease; anticancer; kidney disease; PCR primer; ss.
XX
XX Synthetic.
OS Homo sapiens.
OS
XX
XX MO957153-A1.
PN

XX
XX 11-NOV-1999.
XX
XX 29-APR-1999; 99MO-US09255.
XX
XX 01-MAY-1998; 98US-0071739.
XX
XX (INST-) INSIGHT STRATEGY & MARKETING LTD.
PA (HADA-) HADASIT MEDICAL RES SERVICES & DEV.
PA (FRIE/) FRIEDMAN M M.
XX
XX Pecker I, Vlodavsky I, Friedman Y, Perets T;
PI
XX WPI; 2000-052944/04.
DR
XX
XX Heparanase-specific molecular probes useful for diagnosis and
PT treatment, e.g. of tumors, and for targeted drug delivery
PT
XX
XX Example; Page 30; 90pp; English.
XX
XX The present invention describes heparanase-specific molecular probes,
CC useful for methods of detecting heparanase in situ. The probes and
CC anti-heparanase antibodies are used to detect or quantify the expression
CC of heparanase, for diagnosis and monitoring of diseases (especially
CC metastasis), for treatment of heparanase-associated diseases (e.g.
CC tumours, (adenocarcinoma, squamous cell carcinoma, teratocarcinoma,
CC mesothelioma, melanoma, lymphoma or leukemia, a solid cancer (or its
CC metastases) derived from liver, prostate, bladder, breast, ovary,
CC cervix, colon, skin, intestine, stomach, uterus and pancreas, kidney
CC disease, diabetes and inflammation, haemorrhagic nephritis, nephrotic
CC syndrome, sepsis and inflammatory or autoimmune disease), for targeted
CC drug delivery (e.g. of anticancer agents) and as research reagents, which
CC is used in an example from the present invention.
XX
XX
SQ Sequence 24 BP; 7 A; 4 C; 6 G; 7 T; 0 other;
XX
XX
XX Alignment Scores:
Pred. No.: 439 Length: 24
Score: 53.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.86% Indels: 0
DB: 21 Gaps: 0
US-09-899-440-18 (1-545) x AA23294 (1-24)
OY 293 ASPSerValThrTrpHisHisTyr 300
DB 24 GATTTCAGTTACATGCGATCCTACTAC 1
RESULT 7
ABN86005
ID ABN86005 standard; DNA; 30 BP.
XX
XX ABN86005;
AC
XX
XX 06-SEP-2002 (first entry)
DT
XX
XX Human heparanase gene specific primer Hpl-6.
DE
XX
XX Human; heparanase; cytostatic; vasotropic; antidiabetic; anti-HIV;
KW ophthalmological; antirheumatic; antiarthritis; antiprotective;
KW antineoplastic; neuroprotective; nontropic; cerebroprotective;
KW antibacterial; virucide; protozoicide; fungicide; anti-inflammatory;
KW candidant; immunosuppressive; tumour metastasis; inflammatory disease;
KW allograft rejection; cell migration; angiogenesis; basement membrane;
KW extracellular matrix; cancer; ischaemia; diabetic retinopathy;
KW macular degeneration; rheumatoid arthritis; psoriasis; HIV infection;
KW sickle cell anemia; Alzheimer's disease; muscular dystrophy;
KW neurodegenerative disease; vascular disease; cardiovascular disease;
KW cystic fibrosis; stroke; gene therapy; PCR; primer; ss.
XX

OS Homo sapiens
 XX WO200244353-A2
 XX PD 06-JUN-2002.
 XX PF 30-NOV-2001; 2001WO-US44798
 XX PR 30-NOV-2000; 2000US-250690P.
 XX PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX PI Wolfe AP, Qi H.
 XX DR WPI: 2002-527708/56.
 XX PF New heparanase polynucleotide, useful for controlling disease states
 PT such as tumour metastasis, inflammatory diseases and allograft rejection
 PT
 XX Example 1: Page 44; 72pp; English.
 XX PS
 CC The invention relates to novel heparanase sequences, particularly novel
 CC sequences from the regulatory regions upstream and downstream of the
 CC coding region. The activity of polynucleotides of the invention may be
 CC described as, cytostatic, vasotropic, antidiabetic, anti-HIV,
 CC ophthalmological, antirheumatic, antiallergic, antipsoriatic,
 CC antanaemic, neuroprotective, nootropic, cerebroprotective,
 CC antibacterial, virucide, protozoicide, fungicide, antiinflammatory,
 CC cardiant and immunosuppressive. Modulating expression of heparanase gene
 CC using constructs of the invention is useful for facilitating targeted
 CC control of disease states such as tumour metastasis, inflammatory
 CC diseases, allograft rejection, and for inhibiting processes such as cell
 CC migration, angiogenesis, and degradation of the basement membrane and/or
 CC extracellular matrix. Heparanase-targeted DNA binding domains modulates
 CC gene expression, and are useful for therapeutic or prophylactic
 CC applications, for e.g. cancer, ischaemia, diabetic retinopathy, macular
 CC degeneration, rheumatoid arthritis, psoriasis, HIV infection, sickle cell
 CC anaemia, Alzheimer's disease, muscular dystrophy, neurodegenerative
 CC diseases, vascular disease, cardiovascular disease, cystic fibrosis,
 CC stroke, and bacterial, protozoal, fungal and viral infection. Constructs
 CC of the invention may also be useful in gene therapy. The current sequence
 CC represents a human heparanase gene specific primer designated HP-6. This
 CC was used in the determination of nucleotide sequences in the human
 CC heparanase gene and flanking regions.
 CC
 XX SQ Sequence 30 BP; 4 A; 9 C; 9 G; 8 T; 0 other:
 Alignment Scores:
 Pred. No.: 2.68e+03 Length: 30
 Score: 47.00 Matches: 9
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 1.65% Indels: 0
 DB: 24 Gaps: 0
 US-09-899-440-18 (1-545) x ABN86005 (1-30)
 OY 38 GlnAspValValAspLeuAspPhe 46
 DB 4 CAGGACGCTGCTGACCTGACCTTTC 30
 RESULT 8
 ID AA211239 standard; DNA; 40 BP.
 XX AA211239:
 XX AC
 XX 15-NOV-1999 (first entry)
 XX DT
 XX PCR primer for human pre-proheparanase coding sequence.
 DE
 XX
 KW Human; pre-proheparanase; platelet; wound healing; angiogenesis blocker;

KW inflammation; psoriasis; diabetic retinopathy; solid tumour; arthritis;
 KW heparin degradation; anticoagulant neutralisation; asthma; CNS disease;
 KW inflammatory disease; vascular stenosis; atherosclerosis; diagnosis;
 KW tumour growth; fibroproliferative disorder; neurodegenerative disease;
 KW therapy; PCR primer; ss.
 XX
 OS Synthetic.
 XX Homo sapiens.
 XX PN WO9943830-A2.
 XX PD 02-SEP-1999.
 XX PF 18-FEB-1999; 99WO-US01489.
 XX PR 26-MAR-1998; 98US-0079401.
 XX PR 24-FEB-1998; 98US-0075706.
 XX PA (PHAA) PHARMACIA & UPJOHN CO.
 XX PI Fairbanks MB, Helmliksen RL, Mildner AM.
 XX DR WPI: 1999-540598/45.
 XX PF New isolated platelet heparanase polypeptides, used to develop
 PT products for, e.g. wound healing and blocking angiogenesis
 PT
 XX Example 6: Page 24; 57pp; English.
 XX PS
 CC This sequence represents a PCR primer for DNA encoding the human
 CC pre-proheparanase of the invention. The pre-proheparanase sequence was
 CC isolated from human platelets. The heparanase can be used for identifying
 CC agents which alter heparanase activity. The heparanase can be used for
 CC wound healing or for blocking angiogenesis or inflammation. It can be
 CC used for treating e.g. psoriasis, diabetic retinopathy or solid tumours,
 CC or for the degradation of heparin and the neutralisation of heparin's
 CC anticoagulant properties during surgery. Inhibitors of heparanase
 CC activity can be used in the treatment of arthritis, asthma, and other
 CC inflammatory diseases, vascular stenosis, atherosclerosis, tumour
 CC growth and progression, fibroproliferative disorders, and central nervous
 CC system (CNS) and neurodegenerative diseases. The products can also be
 CC used for detection and diagnosis. The purified heparanase, both
 CC recombinantly produced human heparanase and heparanase isolated from
 CC human platelet activity, allows for the convenient selection of compounds
 CC having anti-heparanase activity, i.e. inhibitors of heparanase activity,
 CC by measuring inhibition of heparanase activity. Inhibition of heparanase
 CC activity can be measured by blocking heparanase-mediated release of
 CC radioactive fragments from in vivo radiolabelled (HSPG)/heparin.
 CC
 XX SQ Sequence 40 BP; 16 A; 10 C; 7 G; 7 T; 0 other:
 Alignment Scores:
 Pred. No.: 4.15e+03 Length: 40
 Score: 47.00 Matches: 9
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 1.65% Indels: 0
 DB: 20 Gaps: 0
 US-09-899-440-18 (1-545) x AA211239 (1-40)
 OY 160 LysLysPheLysAsnSerThrTyrSer 168
 DB 14 AAAAGTTCAGAGACGACCTACTCA 40
 RESULT 9
 ID AA247781/C
 XX AA247781:
 XX AC
 XX 02-MAR-2000 (first entry)
 XX DT
 XX

DE Heparanase expression vector construction PCR primer SEQ ID NO:18.
 XX
 XX Human; heparanase; hpa; genetic modification; expression; anticancer;
 XX angiogenesis; anti-angiogenic; antiproliferative; antiviral; antitumour;
 XX anti-atherosclerotic; anti-inflammatory; antineurodegeneration;
 XX heparan sulphate; heparin-binding growth factor; tumour angiogenesis;
 XX metastasis; wound healing; restenosis; atherosclerosis; inflammation;
 XX neurodegeneration; viral infection; cystic fibrosis; cancer; diagnosis;
 XX microvessel; autoimmune lesion; kidney failure; PCR primer; ss.
 OS
 OS Synthetic.
 XX Homo sapiens.
 XX
 XX MO9957244-A1.
 XX
 XX 11-NOV-1999.
 XX
 XX 29-APR-1999; 99WO-US09256.
 XX
 XX 01-MAY-1998; 98US-0071618.
 XX 02-MAR-1999; 99US-0260038.
 XX
 XX (INSI-) INSIGHT STRATEGY & MARKETING LTD.
 XX (FRIE/) FRIEDMAN M M.
 XX
 XX Ben-Artzi H, Ayal-HersHKovitz M, Yacoby-Zeevi O, Pecker I, Peleg Y;
 XX Shlom Y;
 XX WPI; 2000-062144/05.
 XX
 XX Engineered cells that express recombinant heparanase, useful
 XX therapeutically, e.g. for treating angiogenesis and to screen for
 XX specific inhibitors, potential anticancer agents -
 XX
 XX Example 6; Page 54; 118pp; English.
 XX
 XX The present invention describes genetically modified cells (A) containing
 XX a polynucleotide (I) that encodes a polypeptide with heparanase activity,
 XX and express recombinant heparanase (II). Heparanase cleaves heparan
 XX sulphate (HS) at specific intrachain sites, resulting in release of
 XX heparin-binding growth factors, enzymes and proteins that are sequestered
 XX by HS in basement membranes, extracellular matrix or cell surfaces. It
 XX may also be implicated in tumour angiogenesis and metastases. (II) is
 XX potentially useful in wound healing and for treating angiogenesis,
 XX restenosis, atherosclerosis, inflammation, neurodegeneration, viral
 XX infection and cystic fibrosis. It can also be used to neutralise heparin
 XX (an alternative to protamine) and to screen for specific inhibitors
 XX (potentially useful for treating cancer and metastases). Antibodies
 XX raised against (II) are used for immunodetection and diagnosis of
 XX micrometastases, autoimmune lesions and kidney failure. (A) provide (II)
 XX in large quantities, in a form that is homogeneously processed and
 XX activated/neutralised by a dedicated protease. The present sequence
 XX represents a PCR primer used in the construction of a heparanase
 XX expression vector in an example from the present invention.
 XX
 XX SO Sequence 32 BP; 8 A; 11 C; 4 G; 9 T; 0 other;
 XX
 XX Alignment Scores:
 XX Pred. No.: 3.78e+03 Length: 32
 XX Score: 46.00 Matches: 8
 XX Percent Similarity: 88.89% Conservative: 0
 XX Best Local Similarity: 88.89% Mismatches: 1
 XX Query Match: 1.61% Indels: 0
 XX DB: 21 Gaps: 0
 XX
 XX US-09-899-440-18 (1-545) x AA247781 (1-32)
 XX
 XX QY 114 PhcgluIuArGserTyrTrpGlnSer 122
 XX |||||||||||||||||||
 XX DB 31 TTTGAAGACAGACTTACTGGCATCG 5
 XX
 XX RESULT 10
 XX AA167044

ID AA167044 standard; DNA; 25 BP.
 XX
 XX AC AA167044;
 XX
 XX 11-FEB-2002 (first entry)
 XX
 XX DE Human heparanase-like enzyme (HLE) antisense oligo 5.
 XX
 XX HLE; heparanase-like enzyme; cytotstatic; vasotropic; antiatherosclerotic;
 XX antiinflammatory; nootropic; neuroprotective; virucide; antibacterial;
 XX protozoacide; vulnerary; gene therapy; antisense; human; ss.
 XX
 XX OS
 XX Homo sapiens.
 XX
 XX XX MO200172973-A2.
 XX
 XX PD 04-OCT-2001.
 XX
 XX 22-FEB-2001; 2001WO-EP01997.
 XX
 XX 24-FEB-2000; 2000US-184660P.
 XX 27-NOV-2000; 2000US-252913P.
 XX
 XX (FARB) BAYER AG.
 XX
 XX Ramakrishnan S;
 XX
 XX WPI; 2001-639227/73.
 XX
 XX New human heparanase-like enzyme polypeptide and polynucleotide for
 XX regulating extracellular matrix degradation and treating metastatic
 XX cancer, atherosclerosis, neurodegenerative diseases and pathogenic
 XX infections -
 XX
 XX Example 5; Page 60; 82pp; English.
 XX
 XX The invention provides polynucleotides encoding heparanase-like enzyme
 XX (HLE) polypeptides. The HLE polypeptides can be expressed by standard
 XX recombinant methodology. The HLE modulators are useful for regulating
 XX extracellular matrix degradation, to suppress metastatic activity of
 XX malignant cells, to enhance extracellular matrix degradation during
 XX development and to regulate tumour angiogenesis. HLE is useful for
 XX regulating degradation of the extracellular matrix for the treatment of
 XX various diseases, to develop diagnostic assays for these diseases and
 XX to provide new tools for basic research in medicine and biology. HLE is
 XX useful for developing new drugs to inhibit tumour cell metastasis,
 XX inflammation and autoimmunity to modulate bioavailability of heparin-
 XX binding growth factors, cellular responses to heparin-binding growth
 XX factors and cytokines, cell interaction with plasma lipoproteins,
 XX cellular susceptibility to viral, protozoan, and bacterial infections and
 XX disintegration of neurodegenerative plaques. HLE and regulators of HLE
 XX are useful for treating wound healing, angiogenesis, restenosis,
 XX atherosclerosis, inflammation, neurodegenerative diseases such as
 XX Creutzfeldt-Jakob diseases, Scrapie and Alzheimer's diseases and viral,
 XX bacterial and protozoan infections. HLE can also be used to neutralise
 XX plasma heparin, as a potential replacement of protamine. HLE is useful
 XX for producing antibodies specific for the polypeptide, which can be
 XX applied for immunodetection and diagnosis of micrometastases, autoimmune
 XX lesions, and renal failure in biopsy specimens, plasma samples and body
 XX fluids. The agents identified by the screening assays are useful in
 XX animal models to determine the efficacy, toxicity or side effects of the
 XX agent. Antisense oligonucleotides are useful for modulating HLE gene
 XX expression. The present sequence represents an antisense oligo specific
 XX for the human HLE mRNA.
 XX
 XX SO Sequence 25 BP; 4 A; 10 C; 3 G; 8 T; 0 other;
 XX
 XX Alignment Scores:
 XX Pred. No.: 5.42e+03 Length: 25
 XX Score: 43.00 Matches: 7
 XX Percent Similarity: 100.00% Conservative: 1
 XX Best Local Similarity: 87.50% Mismatches: 0

Query Match: 1.51% Indels: 0
 DB: 22 Gaps: 0
 US-09-899-440-18 (1-545) x AA167044 (1-25)
 QY 405 AspyrTTPLeuSerLeuLeuPhe 412
 Db 1 GACTACTGGCTCTCTCTCTCTAC 24
 RESULT 11
 AA211243
 ID AA211243 standard; DNA; 35 BP.
 AC AA211243:
 XX
 XX
 DT 15-NOV-1999 (first entry)
 DE PCR primer for human pre-proheparanase coding sequence.
 XX
 XX Human; pre-proheparanase; platelet; wound healing; angiogenesis blocker;
 KW inflammation; psoriasis; diabetic retinopathy; solid tumor; arthritis;
 KW heparin degradation; anticoagulant neutralisation; asthma; CNS disease;
 KW inflammatory disease; vascular stenosis; atherosclerosis; diagnosis;
 KW tumour growth; fibroproliferative disorder; neurodegenerative disease;
 KW therapy; PCR primer; ss.
 XX
 XX Synthetic.
 OS Homo sapiens.
 XX
 XX MO9943830-A2.
 PD 02-SEP-1999.
 XX
 XX 18-FEB-1999; 99WO-US01489.
 PF
 XX 26-MAR-1998; 98US-0079401.
 PR 24-FEB-1998; 98US-0075706.
 XX
 XX (PHMA) PHARMACIA & UPJOHN CO.
 PA
 XX
 XX Fairbanks MB, Helinikson RL, Mildner AM;
 PI WPI: 1999-540598/45.
 DR
 XX
 XX
 PT New isolated platelet heparanase polypeptides, used to develop
 products for, e.g. wound healing and blocking angiogenesis
 XX
 XX
 PS Example 7; Page 27; 57pp; English
 XX
 CC This sequence represents a PCR primer for DNA encoding the human
 CC pre-proheparanase of the invention. The pre-proheparanase sequence was
 CC isolated from human platelets. The heparanase can be used for identifying
 CC agents which alter heparanase activity. The heparanase can be used for
 CC wound healing or for blocking angiogenesis or inflammation. It can be
 CC used for treating e.g. psoriasis, diabetic retinopathy or solid tumors,
 CC or for the degradation of heparin and the neutralisation of heparin's
 CC anticoagulant properties during surgery. Inhibitors of heparanase
 CC activity can be used in the treatment of arthritis, asthma, and other
 CC inflammatory diseases, vascular stenosis, atherosclerosis, tumor
 CC growth and progression, fibroproliferative disorders, and central nervous
 CC system (CNS) and neurodegenerative diseases. The products can also be
 CC used for detection and diagnosis. The purified heparanase, both
 CC recombinantly produced human heparanase and heparanase isolated from
 CC human platelet activity, allows for the convenient selection of compounds
 CC having anti-heparanase activity, i.e. inhibitors of heparanase activity,
 CC by measuring inhibition of heparanase activity. Inhibition of heparanase
 CC activity can be measured by blocking heparanase-mediated release of
 CC radioactive fragments from in vivo radiolabelled (HSPG)/heparin.
 XX
 SQ Sequence 35 BP; 15 A; 8 C; 6 G; 6 T; 0 other;
 Alignment Scores: 9.03e+03 Length: 35
 Pred. No.:

Score: 43.00 Matches: 8
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 1.51% Indels: 0
 DB: 20 Gaps: 0
 US-09-899-440-18 (1-545) x AA211243 (1-35)
 QY 160 LysLysPheLysAsnSerThrTyr 167
 Db 12 AAAAGTTCAGACACGACCTCTAC 35
 RESULT 12
 AA055601/c
 ID AA055601 standard; DNA; 40 BP.
 AC AA055601:
 XX
 XX 14-JUL-1994 (first entry)
 DT
 XX
 XX Flanking sequences for manipulation of cloned insert.
 DE
 XX Polymerase chain reaction; mutation; mutagenesis; alteration;
 KW deletion; insertion; repetition; amplification; ds.
 KW
 XX
 XX Synthetic.
 OS
 XX
 XX Key Location/Qualifiers
 FH primer_bind 1..20
 FT /tag- a
 FT 21..40
 FT /tag- b
 FT 20..21
 FT misc_feature /tag- c
 FT /note- *insertion site for cloned DNA*
 XX
 XX US5279952-A.
 FN
 XX
 PD 18-JAN-1994.
 XX
 XX 09-AUG-1991; 91US-0743245.
 PF
 XX 09-AUG-1991; 91US-0743245.
 PR
 XX
 XX (TEXA) UNIV TEXAS SYSTEM.
 PA
 XX
 XX Wu KC;
 PI
 XX WPI: 1994-034337/04.
 DR
 XX
 XX Construction of altered DNA molecules - using polymerase chain
 PT reaction to amplify a segment of a cloned segment of DNA obtd. by
 PT endonuclease cleavage
 XX
 PS Disclosure: Column 17; 24pp; English.
 XX
 CC This synthetic sequence is used to illustrate the novel method; a
 CC direct repeat of a specific cloned region of DNA which lies between
 CC the flanking sequences can be constructed using primers having the
 CC sequences in AA055602-Q55605.
 CC
 XX
 SQ Sequence 40 BP; 14 A; 7 C; 13 G; 6 T; 0 other;
 Alignment Scores: 1.11e+04 Length: 40
 Pred. No.: 43.00 Matches: 6
 Score: 84.62% Conservative: 5
 Percent Similarity: 46.15% Mismatches: 2
 Best Local Similarity: 1.51% Indels: 0
 Query Match: 15 Gaps: 0
 DB: 15
 US-09-899-440-18 (1-545) x AA055601 (1-40)

CC The present invention relates to a novel G protein coupling
 CC receptor, a gene encoding for the receptor family, a process for
 CC preparation of the receptor family, an antibody to the receptor
 CC family and a method for screening using the receptor. The invention may
 CC be used for screening of agents expected to be useful for
 CC prevention and treatment of central nervous system (CNS) diseases.
 CC The present sequence is DNA associated with the G protein
 CC coupling receptor.

XX
 SQ Sequence 40 BP; 10 A; 8 C; 4 G; 18 T; 0 other;

Alignment Scores:
 Pred. No.: 1.41e+04 Length: 40
 Score: 42.00 Matches: 7
 Percent Similarity: 92.31% Conservative: 5
 Best Local Similarity: 53.85% Mismatches: 1
 Query Match: 1.47% Indels: 0
 DB: 22 Gaps: 0

US-09-899-440-18 (1-545) x AAF87604 (1-40)

OY 72 ArgPheLeuIleLeuGlySerProlyseuArgthr 84
 DB 40 AAGTATGATCTTATGAAAGTCCAAAGTAAAGGACA 2

Search completed: January 10, 2003, 12:30:32
 Job time : 313 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: January 10, 2003, 12:23:22 ; Search time 2175 Seconds

(Without alignments)
4058.179 Million cell updates/sec

Title: US-09-899-440-18

Perfect score: 2850

Sequence: 1 MLRSKPALPPPLMLLLG.....LPASYSFFVIRNAKVAAC1 545

Scoring table:
BLOSUM62
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 16154066 segs, 8097743376 residues

Total number of hits satisfying chosen parameters: 60474

Minimum DB seq length: 0
Maximum DB seq length: 40

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL-frame+ p2n.model -DEV-xlh
-O=/sgn2.1/USPRO.spool/US09899440/runat.08012003.124403.23170/app.query.fasta_1.711
-DB-EST -QEXT-fastap -SUFFIX-rst -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS-bits -START=1 -END=1 -MATRIX-biosum62 -TRANS-human40.cdi -LIST-45
-DOCALLIGN=200 -THR.SCORP-pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15 -MODE-LOCAL
-OUTFMT-pct -NORM-ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=40
-USER=US09899440.ecgn.1.1.1439.gnarat.08012003.124403.23170 -NCPU=6 -ICPU=3
-NO_XLPHY -NO_MMAP -LARGOQUERY -NEG.SCORP=0 -WAIT -LONGLOG -DEV.TIMEOUT=120
-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

EST:*
1: em_estba:*
2: em_esthum:*
3: em_estlin:*
4: em_estlmu:*
5: em_estlov:*
6: em_estlpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_inv:*
20: em_gss_pln:*
21: em_gss_vrt:*
22: em_gss_fun:*
23: em_gss_mam:*
24: em_gss_mus:*
25: em_gss_other:*
26: em_gss_pro:*
27: em_gss_rtd:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	41.5	1.5	40	17	AZ345503
2	41	1.4	36	13	B1819025
3	40	1.4	36	13	A2328880
4	40	1.4	37	13	B1765481
5	39	1.4	37	17	A2761912
6	38	1.3	26	17	BH810301
7	38	1.3	31	9	AA932800
8	38	1.3	40	9	AI800161
9	37	1.3	31	9	AI633407
10	37	1.3	38	17	A2783438
11	37	1.3	40	9	AA878864
12	37	1.3	40	17	BH626944
13	36	1.3	25	17	A2635993
14	36	1.3	30	17	A2786025
15	36	1.3	31	9	AA779867
16	36	1.3	33	10	AV947529
17	36	1.3	33	17	A2607132
18	36	1.3	34	12	BE914450
19	36	1.3	34	17	A2304044
20	36	1.3	36	17	TA207D04Q
21	36	1.3	37	9	A1624760
22	36	1.3	37	17	A2773664
23	36	1.3	38	10	AW248989
24	36	1.3	40	9	A1288030
25	36	1.3	40	9	A1783759
26	36	1.3	40	17	A2957172
27	35	1.2	25	17	A2608629
28	35	1.2	30	12	BE904656
29	35	1.2	31	9	A1364457
30	35	1.2	31	12	BF666846
31	35	1.2	33	13	B1825936
32	35	1.2	34	9	A1679919
33	35	1.2	34	9	A1793680
34	35	1.2	34	17	A2825014
35	35	1.2	35	17	TA363G02P
36	35	1.2	36	17	BH857106
37	35	1.2	37	9	A1913033
38	35	1.2	37	9	AU257109
39	35	1.2	37	17	A2625706
40	35	1.2	38	17	A2662464
41	35	1.2	39	17	A2946046
42	35	1.2	39	17	BH792015
43	35	1.2	40	9	A1628006
44	35	1.2	40	9	A1678633
45	35	1.2	40	14	D18217

ALIGNMENTS

RESULT 1
AZ345503
LOCUS
DEFINITION
1M0080G05F Mouse 10kb plasmid ucgclm library Mus musculus genomic
AZ345503
ACCESSION
AZ345503
VERSION
AZ345503.1 GI:10424740
KEYWORDS
GSS.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sclirognathi; Muridae; Murinae; Mus.
1 (bases 1 to 40)
Dunn,D., Moyagi,A., Barber,M., Beacorn,T., Duval,B., Hamli,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly

TITLE
JOURNAL
COMMENT

'M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A. and Wright, D., Weis, R.
Mouse whole genome scaffolding with paired end reads from 10kb
Plasmid inserts
Unpublished (2000)
Contact: Robert B. Weis
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: dunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0080 row: G column: 05
Seq primer: CGTTGTAAACGACGCCCACT
Class: Plasmid ends
High quality sequence stop: 40.

FEATURES

source

1. 40
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCG1M0080G05"
/clone_1lb="Mouse 10kb plasmid UUCG1M library"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g11473211419b1AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 1 a 24 c 0 g 15 t

ORIGIN

Alignment Scores:

Prod. No.: 5.6e+04 Length: 40
Score: 41.50 Matches: 10
Percent Similarity: 92.31% Conservative: 2
Best Local Similarity: 76.92% Mismatches: 1
Query Match: 1.46% Indels: 1
Gaps: 1

US-09-899-440-18 (1-545) x AZ345503 (1-40)

QY 8 A1A1eupPro---ProProLeuLeuMeLeuLeuLeuLeu 19
DB 1 TCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCT 39

RESULT 2
B1819025

LOCUS B1819025 36 bp mRNA linear EST 04-OCT-2001
DEFINITION 603033150P1 NIH_MGC_115 Homo sapiens CDNA clone IMAGE:5174340 5',
B1819025
RNA sequence.

ACCESSION B1819025
VERSION B1819025.1 GI:15930575

KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE
AUTHORS
JOURNAL
COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 36)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapsb@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1AM1434 row: C column: 13
High quality sequence stop: 36.

FEATURES

source

1. 36
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5174340"
/clone_1lb="NIH_MGC_115"
/lab_host="DH10B"
/note="Organ: pooled brain, lung, testis; Vector: PCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA source anonymous pool of 6 male brains, age range 23-27; 1 male lung, age 27; and 1 male testis, age 69. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.8 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 021. Note: this is a NIH_MGC library."

BASE COUNT 7 a 20 c 6 g 3 t

ORIGIN

Alignment Scores:

Prod. No.: 5.4e+04 Length: 36
Score: 41.00 Matches: 5
Percent Similarity: 100.00% Conservative: 5
Best Local Similarity: 50.00% Mismatches: 0
Query Match: 1.44% Indels: 0
Gaps: 0

US-09-899-440-18 (1-545) x B1819025 (1-36)

QY 469 ProTyProPheserAsnLysGlnValAsp 478

DB 4 CCATACCCCTACGCCACGCCGCTGAGC 33

RESULT 3
AZ328880/c

LOCUS AZ328880 36 bp DNA linear GSS 29-SEP-2000
DEFINITION IM0052D19R Mouse 10kb plasmid UUCG1M library Mus musculus genomic
clone UUCG1M0052D19 R, DNA sequence.

ACCESSION AZ328880
VERSION AZ328880.1 GI:10389043

KEYWORDS GSS.

SOURCE house mouse.

ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 36)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Rellly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A. and Wright, D., Weis, R.

TITLE
JOURNAL
COMMENT

Mouse whole genome scaffolding with paired end reads from 10kb
Unpublished (2000)
Contact: Robert B. Weis
University of Utah Genome Center

University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0052 row: D column: 19
Seq primer: CACACAGCAACACGCTATGACC
Class: plasmid ends
High quality sequence stop: 36.
Location/Qualifiers

FEATURES

SOURCE

1. .36
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U06C1M052D19"
/lab_host="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g1473214|g1473214|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT

8 a 3 c 15 g 10 t

ORIGIN

Alignment Scores:

Pred. No.: 7.14e+04 Length: 36
Score: 40.00 Matches: 7
Percent Similarity: 81.82% Conservative: 2
Best Local Similarity: 63.64% Mismatches: 2
Query Match: 1.40% Indels: 0
DB: 17 Gaps: 0

US-09-899-440-18 (1-545) x A2328880 (1-36)

QY 6 LysProAlaLeuProProLeuLeuMetLeu 16

Db 36 AAGCCAGTCACACCTCTTATACACTTA 4

RESULT 4

BI765481/c

LOCUS 37 bp mRNA linear EST 25-SEP-2001

DEFINITION 603050546F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5190683 5',

ACCESSION BI765481

VERSION BI765481.1 GI:15757059

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NIH-MGC http://mgs.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.

FEATURES

SOURCE

Email: cgraphs@emall.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1AM11476 row: 1 column: 12
High quality sequence stop: 37.
Location/Qualifiers

1. .37
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5190683"
/lab_host="NIH_MGC_116"
/lab_host="DH10B"
/note="Organ: pooled colon, kidney, stomach; Vector: pCMW-SPORT6; Site: 1; Note: site 2; EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (Invitrogen). Research Genetics tracking code 023. Note: this is a NIH-MGC library."

BASE COUNT

7 a 6 c 22 g 2 t

ORIGIN

Alignment Scores:

Pred. No.: 7.48e+04 Length: 37
Score: 40.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 1.40% Indels: 0
DB: 13 Gaps: 0

US-09-899-440-18 (1-545) x BI765481 (1-37)

QY 27 ProGlyAlaLeuProAlaPro 33

Db 37 CCGGGGGCTCTCCCTGCCCCA 17

RESULT 5

A2761912/c

LOCUS 37 bp DNA linear GSS 16-FEB-2001

DEFINITION 1M0556D02R Mouse 10kb plasmid U06C1M library Mus musculus genomic

ACCESSION A2761912

VERSION A2761912.1 GI:12871332

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 37)
Dunn, D., Aoyagi, J., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
 Plate: 0556 row: D column: 02
 Seq primer: CACACAGGAAACAGCATGACC
 Class: plasmid ends
 High quality sequence stop: 37.
 Location/Qualifiers

FEATURES

source

1.37
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUC1M0556D02"
 /clone_1lb="Mouse 10kb plasmid UUC1M library"
 /sex="Male"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: pMD22ny; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g11473211419b/AF129072.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 14 a 1 c 22 g 0 t
 ORIGIN

Alignment Scores:

Pred. No.: 9.9e+04 Length: 37
 Score: 39.00 Matches: 7
 Percent Similarity: 87.50% Conservative: 0
 Best Local Similarity: 87.50% Mismatches: 1
 Query Match: 1.37% Indels: 0
 DB: 17 Gaps: 0

US-09-899-440-18 (1-545) x A2761912 (1-37)

OY 7 ProAlaLeuProProLeuLeu 14
 DB 31 CCTCCTCTCTCTCTCTCTCTG 8

RESULT 6

LOCUS BH810301 26 bp DNA linear GSS 02-MAY-2002
 DEFINITION SALK_048826 Arabidopsis thaliana TDNA insertion lines Arabidopsis
 accession BH810301 thaliana genomic clone SALK_048826, DNA sequence.
 VERSION BH810301.1 GI:20388119
 KEYWORDS GSS.
 ORGANISM Arabidopsis thaliana
 SOURCE thale cress.
 ORGANISM Arabidopsis thaliana
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsids.
 1 (bases 1 to 26)
 Alonso,J.M., Leisner,T.J., Barajas,P., Chen,H., Cheuk,R., Gadgilnab,
 C., Jeske,A., Karnes,M., Kim,C.J., Parker,H., Prednis,L., Shin,P.,
 Zimmerman,J. and Ecker,J.R.
 A Sequence-Indexed Library of Insertion Mutations in the
 Arabidopsis Genome
 Unpublished (2001)
 Contact: Joseph R. Ecker
 Salk Institute Genomic Analysis Laboratory (SIGAL)
 The Salk Institute for Biological Studies

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT The Salk Institute for Biological Studies

10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
 Tel: 858 453 4100 x1752
 Fax: 858 558 6379
 Email: ecker@salk.edu
 This is single pass sequence recovered from the left border of
 TDNA.
 Class: TDNA tagged.
 Location/Qualifiers

FEATURES

source

1.26
 /organism="Arabidopsis thaliana"
 /strain="Columbia 0"
 /db_xref="taxon:3702"
 /clone="SALK_048826"
 /clone_1lb="Arabidopsis thaliana TDNA insertion lines"
 /note="PCR was performed on Arabidopsis thaliana lines each of which contains one or more TDNA insertion elements. The resultant fragment for each line was directly sequenced to determine the genomic sequence at the site of insertion. Details of the protocols used can be found at http://signal.salk.edu/tDNA_protocols.html."

BASE COUNT 10 a 1 c 7 g 8 t
 ORIGIN

Alignment Scores:

Pred. No.: 7.23e+04 Length: 26
 Score: 38.00 Matches: 6
 Percent Similarity: 85.71% Conservative: 0
 Best Local Similarity: 85.71% Mismatches: 1
 Query Match: 1.33% Indels: 0
 DB: 17 Gaps: 0

US-09-899-440-18 (1-545) x BH810301 (1-26)

OY 217 GlyTyrAsnIleSerTrpLeu 223
 DB 5 GCATATATATATATGTTCGCA 25

RESULT 7

LOCUS AA932800 31 bp mRNA linear EST 07-JUL-1998
 DEFINITION o060f10.s1 NCI-CGAP Lu5 Homo sapiens CDNA clone IMAGE:1570603 3', similar to TR:Q24423 Q24423 ZINC FINGER PROTEIN. ;, mRNA sequence.
 accession AA932800
 version AA932800.1 GI:3086765
 keywords EST.
 organism human.
 source human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 31)
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP).
 Tumor Gene Index
 Unpublished (1997)
 Contact: Robert Strausberg, Ph.D.
 Email: cga@pds-riemail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the J.M.A.G.E. Consortium/LLNL at:
 www-bio.llnl.gov/bhrp/image/image.html
 Insert Length: 531 Std Error: 0.00
 Seq primer: -40m3 fwd. EP from Amersham
 High quality sequence stop: 3.
 Location/Qualifiers

FEATURES

source

1.31
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:1570603"
 /clone_1lb="NCI-CGAP_Lu5"

DB:	9	Gap:	0
US-09-899-440-18 (1-545) x A1633407 (1-31)			
OY	5	SerialsProAlaLeuProProPro	12
		:::	
Db	5	GCACAAACCCCTTTACCCCCCCC	28
RESULT 10			
LOCUS	A2783438	38 bp	DNA
DEFINITION	2M0025H12F Mouse 10kb plasmid UNGC1M library Mus musculus genomic		
ACCESSION	U00000025H12 F, DNA sequence.		
VERSION	A2783438		
KEYWORDS	A2783438.1 GI:12918166		
SOURCE	GSS.		
ORGANISM	house mouse.		
	Mus musculus		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
REFERENCE	Mammalia; Eutheria; Rodentia; Sciurognathii; Muridae; Murinae; Mus.		
AUTHORS	1 (bases 1 to 38)		
	Dunn,D., Aoyagi,A., Barber,M., Becorn,T., Duval,B., Hamill,C.,		
	Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly		
	,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A.		
	and Wright,D., Weils,R.		
	Mouse whole genome scaffolding with paired end reads from 10kb		
	plasmid inserts		
	Unpublished (2000)		
JOURNAL	Contract: Robert B. Weiss		
COMMENT	University of Utah		
	Rm. 300, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT		
	84112, USA		
	Tel: 801 585 5606		
	Fax: 801 585 7177		
	Email: ddunn@genetics.utah.edu		
	Insert Length: 10000 Std Error: 0.00		
	Plate: 0025 row: H column: 12		
	Seq primer: CGTGTGTAACGACCGCCAGT		
	Class: plasmid ends		
	High quality sequence stop: 38.		
FEATURES			
source	Location/Qualifiers		
	1..38		
	/organism="Mus musculus"		
	/strain="C57BL/6J"		
	/db_xref="taxon:10090"		
	/clone="U00000025H12"		
	/clone_1fb="Mouse 10kb plasmid UNGC1M library"		
	/sex="Male"		
	/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"		
	/note="Vector: pMD29hy; Purified genomic DNA from M.		
	musculus C57BL/6J (male) was obtained from the Jackson		
	Laboratory Mouse DNA Resource		
	(http://www.jax.org/resources/documents/dnares/). The DNA		
	was hydrodynamically sheared by repeated passage through a		
	0.005 inch orifice at constant velocity. The sheared DNA		
	was blunt end-repaired with T4 DNA polymerase and T4		
	polynucleotide kinase. Adaptor oligonucleotides were		
	ligated to the blunt ends in high molar excess. The		
	adaptor DNA was purified and size-selected for a 9.5 to		
	10.5 kb range using preparative agarose gel		
	electrophoresis. Vector DNA was prepared from a derivative		
	of pMD24 (g114732114[gb AF129072.1]) a copy-number		
	inducible derivative of plasmid RL. The vector was ligated		
	with adaptors complementary to the insert adaptors and		
	purified. The sheared, adaptor mouse DNA was annealed to		
	chemically-competent E. coli XL10-Gold (Stratagene) cells		
	and selected for ampicillin resistance."		
BASE COUNT	10 a	10 c	11 g
ORIGIN			7 t
Alignment Scores:			

ORGANISM Zea.mays
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC
clade; Panicoideae; Andropogoneae; Zea.
REFERENCE 1 (bases 1 to 40)
MALBOT,V.
TITLE Maize genomic sequences found using engineered Rescemu transposon
JOURNAL Unpublished (2001)
COMMENT Contact: Malbot V
Department of Biological Sciences
Stanford University
855 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Fax: 650 723 8221
Email: valbot@stanford.edu
Very probable ligation site of ends cut by single endonuclease.
Reverse complemented post-ligation sequence from source sequence.
Plate: 1007066 column: 35
Class: transposon-tagged.
Location/Qualifiers
1..40
/organism="Zea mays"
/cultivar="mixed background W23/A18/B73"
/db_xref="taxon:4577"
/clone_lib="1007 - Rescemu Grid H"
/tissue_type="leaf"
/dev_stage="adult"
/lab_host="DH10B"
/note="Organ: leaf; Vector: Rescemu (engineered from
pBluescript backbone); Site:1: BamHI, Site:2: BglII;
Rescemu is a 4.9 kb, modified maize Mu transposon
designed to allow plasmid rescue from total genomic DNA.
Mu elements insert preferentially into transcription
units. For more information on Rescemu, go to the web
site 'www.zmdb.iastate.edu' and follow the links for
'Rescemu.' Grid H was grown at Berkeley in 2001. DNA
was extracted from leaf punches, double digested using
BamHI and BglII, and ligated to form circular plasmids.
DH10B cells were transformed and then screened on LB
plates with ampicillin."

BASE COUNT 7 a 12 c 10 g 11 t
ORIGIN

Alignment Scores:
Pred. No.: 1.98e+05 Length: 40
Score: 37.00 Matches: 7
Percent Similarity: 81.82% Conservative: 2
Best Local Similarity: 63.64% Mismatches: 2
Query Match: 1.30% Indels: 0
DB: 17 Gaps: 0

US-09-899-440-18 (1-545) x BH626944 (1-40)

QY 4 ArgSerLySPrcAlaLeuProProLeuLeu 14
||||| |||||: |||||: |||
Db 3 AGATCCGCCCGCTGTGTACCAAGGTGG 35

RESULT 13
A2635993 25 bp DNA linear GSS 13-DEC-2000
LOCUS A2635993/c
DEFINITION IM04933E20R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M04933E20 R, DNA sequence.
ACCESSION A2635993
VERSION A2635993.1 GI:11758183
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 25)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
Islam,H., Longacre,S., Mahmoud,M., Meene,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.

TITLE and Wright,D.,Weiss,R.
JOURNAL Mouse whole genome scaffolding with paired end reads from 10kb
COMMENT Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0493 row: E column: 20
Seq primer: CACACAGCAAAACACCTATGACC
Class: plasmid ends
High quality sequence stop: 25.
Location/Qualifiers
1..25
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone_lib="UUGC1M0493E20"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (g11473211419b1Arl29072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 11 a 0 c 14 g 0 t
ORIGIN

Alignment Scores:
Pred. No.: 1.19e+05 Length: 25
Score: 36.00 Matches: 7
Percent Similarity: 87.50% Conservative: 0
Best Local Similarity: 87.50% Mismatches: 1
Query Match: 1.26% Indels: 0
DB: 17 Gaps: 0

US-09-899-440-18 (1-545) x A2635993 (1-25)

QY 10 ProProLeuLeuMetLeuLeu 17
||||| ||||| ||||| |||||
Db 24 CTTCTCTCTCTCTCTCTCTCTCTC 1

RESULT 14
A2786025 30 bp DNA linear GSS 16-FEB-2001
LOCUS A2786025/c
DEFINITION 2M0030016R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0030016 R, DNA sequence.
ACCESSION A2786025
VERSION A2786025.1 GI:12923372
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

